

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: April 10, 2004, 04:11:04 ; Search time 11423 Seconds

(without alignments)
11553.842 Million cell updates/sec

Title: US-09-430-412a-1

Perfect score: 3045

Sequence: 1 atccacataatccgctta.....gtggagagatggggtcttcg 3045

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 21671516995 residues

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

GenEmbl:*
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2: gb_hcg:*
3: gb_in:*
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41: gb_ov:*

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
1	2731	89.7	139929	9	AC008965	AC008965 Homo sapi
2	2731	89.7	180483	9	AC122707	AC122707 Homo sapi
3	1959.2	64.3	3000	6	AX194837	AX194837 Sequence
4	979.4	32.2	3001	6	AX194838	AX194838 Sequence
5	747.8	24.6	1204	6	HSHHT1A	Z11168 H.sapiens 5
6	522.4	17.2	2512	6	AX194847	AX194847 Sequence
7	438	14.4	468	9	HSHHT1A5	X53826 H.sapiens D
8	163.6	5.4	3635	10	AF087675	AF087675 Rattus no
9	162.6	5.3	203941	2	AC114573	AC114573 Mus muscu
10	159.6	5.2	259367	2	AC130951	AC130951 Rattus no
11	159.6	5.2	260103	2	AC094978	AC094978 Rattus no
12	144	4.7	5570	10	AY029704	AY029704 Mus muscu
13	139.6	4.6	2725	10	AF217200	AF217200 Rattus no
14	134.2	4.4	1256	10	MMU32820	U13820 Mus muscu
15	125.6	4.1	7218	6	166494	166494 Sequence 14
16	100	3.3	158659	9	AP006183	AP006183 Homo sapi
17	95	3.1	133877	2	AC120883	AC120883 Homo sapi
18	94	3.1	129240	9	AC084128	AC084128 Homo sapi
19	94	3.1	170928	9	AC034148	AC034148 Homo sapi
20	92	3.0	160732	9	AC018647	AC018647 Homo sapi
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22	91.6	3.0	67970	3	PFMAL1P3	AL031746 Plasmodiu
23	91.2	3.0	148075	3	AC110014	AC110014 Homo sapi
24	91.2	3.0	250029	3	AE014816	AE014816 Plasmodiu
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26	90	3.0	139409	9	AC069181	AC069181 Homo sapi
27	89.2	2.9	8056	6	AX599046	AX599046 Sequence
28	89	2.9	178207	9	AC140172	AC140172 Homo sapi
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30	88.8	2.9	133877	2	AC120883	AC120883 Homo sapi
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ALIGNMENTS

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ACCESSION AC008965
VERSION AC008965.6 GI:15042790
KEYWORDS HMG.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 139939)
AUTHORS DOE Joint Genome Institute and Stanford Human Genome Center.
TITLE Direct Submission
JOURNAL Unpublished

Pred. No. is the number of results predicted by chance to have a


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LOCUS AC122707
DEFINITION Homo sapiens chromosome 5 clone RP11-158J3, complete sequence.
ACCESSION AC122707.2 GI:21427685
VERSION AC122707.2
KEYWORDS HTG.
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 180483)
DOE Joint Genome Institute and Stanford Human Genome Center.
Unpublished
2 (bases 1 to 180483)
DOE Joint Genome Institute.
Direct Submission
JOURNAL
Direct Submission
AUTHORS
Submitted (15-JUN-2002) DOE Joint Genome Institute, 2800 Mitchell
Drive, Walnut Creek, CA 94598, USA
On Jun 15, 2002 this sequence version replaced gi:21206270.
Draft Sequence Produced by DOE Joint Genome Institute
www.jgi.doe.gov
COMMENT
Finishing Completed at Stanford Human Genome Center
www.sbgc.stanford.edu
Quality: Phrap Quality >=40 99.9% of Sequence;
Estimated Total Number of Errors is 0.3.
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Matches 2984; Conservative 5; Mismatches 45; Indels 29; Gaps 20;

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LOCUS AX194837				
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ACCESSION AX194837				
VERSION AX194837.1 GI:15385484				
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Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.				
REFERENCE				
1 Chu,T., Blumenfeld,M. and Cohen,D.				
Biallelic markers derived from genomic regions carrying genes				
Involved in central nervous system disorders				
AUTHORS				
TITLE				

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JOURNAL      Patent: WO 0151659-A 307 19-JUL-2001;
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ORIGIN

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Matches 2018; Conservative 1; Mismatches 1; Indels 6; Gaps 6;

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1144 GGAGAAATTCAGAGCTATGAAATTCAGAGCTCAGATTTGACACCAATATTAAGATTAATGC 1202

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Db	2180	TAATAACGTCCTCCCTCTTCTTAAAGGTGTGTAATTTCTCAATACCTGCTTCATTTCT	2121
QY	1801	GGCATTAAGGGGTTCCAGATGGCACTCTAAAACATTTGCGAGAAAGTGGCGAACATATAAC	1860
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Db	2062	CTCATTTGCTTAAACTGTGCCAGGTGCTGAAACCCAGTTTCTGAGATTTAAGAGGCTAGC	2003
QY	1921	CGGCTAGCGAAACGGAGATTCCACCAGTTTCCCCAGAGGTTTGCAAGCTCTGGTAAGAA	1980
Db	2002	CGGCTAGCGAAACGGAGATTCCACCAGTTTCCCCAGAGGTTTGCAAGCTCTGGTAAGAA	1943
QY	1981	GTGCAAAAAGSCATGTGAAATGCGAGCTTCACTTAGAACATATGCAAAATATTTTCCA	2040
Db	1942	GTGCAAAAAGSCATGTGAAATGCGAGCTTCACTTAGAACATATGCAAAATATTTTCCA	1883
QY	2041	TCCCTGAATTTACTAGCCACAAAGCTAAGGAGGGGAGAGTCATGAAATTAACAAGT	2100
Db	1882	TCCCTGAATTTACTAGCCACAAAGCTAAGGAGGGGAGAGTCATGAAATTAACAAGT	1823
QY	2101	TAGTAGTGATGAAAAGTGTGTGTGTGTTAAGAAATATATATACACTGAGTTTGTCTT	2160
Db	1822	TAGTAGTGATGAAAAGTGTGTGTGTGTTAAGAAATATATACACTGAGTTTGTCTT	1763
QY	2161	CATTTCCGATGACGAGTTGTTTAACTCCCTGCTGCTTGAAGAGTCCTTAATAATTCGT	2220
Db	1762	CATTTCCGATGACGAGTTGTTTAACTCCCTGCTGCTTGAAGAGTCCTTAATAATTCGT	1703
QY	2221	TCTCTCCCGGTGCCCAACGTTTAAAAAAAAGTCAAGGCAATATTCCTCCGAGGAGT	2280
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QY	2341	GTTTCTTTTGGAGACGAGTCTGCTCTGCGCCAGCGAGTGGAGTGCATGAGCGCAGA	2400
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QY	2820	GAGGGTTAGATGGGAGGGAAGACCTGCTTTTGAAAGCATCTACAGAGGATTAATTA	2879

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Dd		1042	AAGGGAAGTGAGAGGAGGAAGGGAAGTGTAAAGGGAAGCGAAGTGGGAGAAAGGGGACA	983
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Qy		3000	AGGAGAGAGAGGCTCACAGAGTAGCCCTGGAGGATGGGCTTCTCG	3045
Dd		922	AGGAGAGAGAGGCTCACAGAGTAGCCCTGGAGGATGGGCTTCTCG	877
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DEFINITION		Sequence 308 from Patent WO0151659.		
ACCESSION		AX194838		
VERSION		AX194838.1	GI:15385485	
KEYWORDS				
SOURCE		Homo sapiens (human)		
ORGANISM		Homo sapiens		
REFERENCE		Chen T., Blumenfeld M. and Cohen D. Ballistic markers derived from genomic regions carrying genes involved in central nervous system disorders Patent: WO 0151659-A 308 19-JUL-2001; GENSET (FR) Location/Qualifiers 1..3001 /organism="Homo sapiens" /mol_type="unassigned DNA" /db_xref="taxon:9606" 1114..1133 /note="upstream amplification primer" misc_feature 1481..1500 /note="8-45-389_mis1, potential" 1489..1513 /note="8-45-389 potential probe" variation 1501 /note="8-45-389 : polymorphic base A or G" misc_feature 1502..1520 /note="8-45-389_mis2, complement" 1516..1533 /note="downstream amplification primer, complement"		
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JOURNAL				
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Dd		9	AAAATATTTCATCCCTGAATTTCTGCCCAAGCATGGGAAGTGCAGTGTCACTG	68
Qy		2089	AAATTACAAGTGTAGTAGTAGTGAAGAAAGTGTGTGTGTATTAGAAATATATATACACTG	2148
Dd		69	AAATTACAAGTGTAGTAGTAGTGAAGAAAGTGTGTGTGTATTAGAAATATATATACANTG	128
Qy		2149	AGTTTGTCTTCACTTTCGAGATGCAAGTGTTCACCTCTGTGCTTGTACAGCTCT	2208
Dd		129	AGTTTGTCTTCACTTTCGAGATGCAAGTGTTCACCTCTGTGCTTGTACAGCTCT	188
Qy		2209	TATATATTTCTGCTCTCCCGGTTCCCCAACGTTAAAAAAAAGTCACAGGCAATATTTCT	2266
Dd		189	TATATATTTCTGCTCTCCCGGTTCCCCAACGTTAAAAAAAAGTCACAGGCAATATTTCT	248
Qy		2269	CCCTGAGGGAATGAAGCTGCACTGTATGATATATAACGAGGTACCGTTTGTGTGTGTG	2322

Db	249	CCCTGAGGGAGTAAAGGCTGGACTGCTATGATATATTAACNAGATACCGTTTGTGTGTGTTG	308
Qy	2329	TGCTGCTGTTGTTGTTGTTGTTTGGAGAGAGATCTGCGTCTGTCGCGCCAGAGGCTGGAGTGC	2388
Db	309	TGCTGCTGTTGTTGTTGTTTGGAGAGAGATCTGCGTCTGTCGCGCCAGAGGCTGGAGTGC	368
Qy	2389	AATGGCGCGAGAACGAGAGTACCTTTTTPAAAACGANAAGCACACTGGTCTTCTTCATC	2448
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Db	489	GCTTCCCTTTTCTCATCTCTCTATTGGCACTCTGGATGCTGACACGATTTAAGATTGTC	548
Qy	2569	AGATTAATATGAGGCAAGAGTATGTAATTCCTCCCGCAAGTTTTCACACCCAGTT	2628
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Qy	2629	TTCCTGGGTTTGAAGGCGAGATTATTTGTTACAACTTGGTCTGACCGCA - GATCTGG	2687
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Qy	2688	TGTGTGTAATGAGTACTCTGAGTCTCTGTGTGACAAAGAGACTCGAATCAAGAGCGTG	2747
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Qy	2808	GATTTAGAGAGGAGAGGAGTTAGATGAGAGAGAGAGAGAGAGCTTGCTTGAAGAGCACTACA	2867
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Qy	2868	GAGGATTAATTAAGGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	2927
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Db	908	AGAGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	967
Qy	2988	AAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	3045
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RESULT 5

HS5HT1A

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

MEDLINE

PUBMED

REFERENCE

AUTHORS

1204 bp

DNA

linear

PI 12-AUG-1996

HS5HT1A

H.sapiens 5HT1A receptor region.

Z11168 X60451

Z11168.1 GI:1033027

promoter; serotonin receptor protein.

Homo sapiens (human)

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Euteleia; Primates; Catarrhini; Hominiidae; Homo.

1 (bases 1 to 1204)

Parks,C.L., Chan,L.S. and Shenk,T.

Polymyrase chain reaction mediated by a single primer: cloning of

genomic sequences adjacent to a serotonin receptor protein coding

region

Nucleic Acids Res. 19 (25), 7155-7160 (1991)

2 (bases 1 to 1204)

Parks,C.L. and Shenk,T.

TITLE	The serotonin 1a receptor gene contains a TATA-less promoter that responds to MAZ and Sp1					
JOURNAL	J. Biol. Chem. 271 (8), 4417-4430 (1996)					
MEDLINE	96224025					
PUBMED	8626793					
REFERENCE	3 (bases 1 to 1204)					
AUTHORS	Parks,C.L.					
TITLE	Direct Submission					
JOURNAL	Submitted (19-SEP-1991) C.L. Parks, Lewis Thomas Laboratory, Princeton University, Dept of Mol Biology, Princeton, New Jersey 08544-1014, USA					
COMMENT	On Oct 22, 1995 this sequence version replaced gi:23893. Overlaps cDNA sequences; Koblika et al., Nature 325:75-79(1987), Fargin et al., Nature 335:35-360(1988).					
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Dd	61	TGTTCGCGCGTGTCTGTCCTTTTGGAGAAGAGTCTCCTCTGTGCCCAAGCTGG	120			
QY	2384	AGTGCATGCGCGAGAACGAGAGTAGCTTTTAAATTAAGACACACTCGGTCTT	2443			
Dd	121	AGTGCATGCGCGAGAACGAGAGTAGCTTTTAAATTAAGACACACTCGGTCTT	180			
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Dd	181	CGATCAATTGACAAATATGGGAACTGACCCGAGACTGTACCTCCCATTCAGGCT	240			
QY	2504	CCTATGCTCTCTTCTCATCTCTATATGGCACTCGGATGCTGACGATTTAAGAT	2563			
Dd	241	CCTATGCTCTCTTCTCATCTCTATATGGCACTCGGATGCTGACGATTTAAGAT	300			
QY	2564	TTGGAGAGTAATATGAGGCAAGAGTAGTGGAAATCCCTCCCCAAGTTTCCAACC	2623			
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QY	2624	CAGTTTGTCTGAGGTTGAGGCGAGTTATTTGTTCACACTTGTGTCGACCGACA-GGA	2682			
Dd	361	CAGTTTGTCTGAGGTTGAGGCGAGTTATTTGTTCACACTTGTGTCGACCGAGGA	420			
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Dd	421	TCTGGTGTGTAAGTAGTCTGAGCTCTGTGCAAAAAGAGACTCGAATGCAAGA	480			
QY	2743	CGCTAGACTAAGGAGAGAGGCGGAGACCCAGAGAAAGAGCACTCTCGGAGTTG	2802			

[illegible][illegible]

table.

----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: http://www.hgsc.bcm.tmc.edu/
Contact: hgsc-help@bcm.tmc.edu
----- Project Information
Center project name: KCBZ
Center clone name: CH230-28H16
----- Summary Statistics
Assembly program: Phrap, version 0.990329
Consensus quality: 224177 bases at least Q40
Consensus quality: 227857 bases at least Q30
Consensus quality: 230151 bases at least Q20
Estimated insert size: 228579; sum-of-coverage estimation
Quality coverage: 6x in Q20 bases; sum-of-coverage estimation

* NOTE: Estimated insert size may differ from sequence length
* (see http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently
* consists of 7 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

1 223575: contig of 223575 bp in length
* 223576 223675: gap of unknown length
* 223676 251764: contig of 28089 bp in length
* 251765 251864: gap of unknown length
* 251865 252974: contig of 1110 bp in length
* 252975 253074: gap of unknown length
* 253075 254115: contig of 1041 bp in length
* 254116 254215: gap of unknown length
* 254216 255456: contig of 1241 bp in length
* 255457 255556: gap of unknown length
* 255557 256741: contig of 1185 bp in length
* 256742 256841: gap of unknown length
* 256842 259367: contig of 2526 bp in length.

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ORIGIN
Query Match 5.2%; Score 159.6; DB 2; Length 259367;
Best Local Similarity 54.9%; Pred. No. 1.7e-18;
Matches 704; Conservative 0; Mismatches 484; Indels 94; Gaps 16;
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DB 123402 TATTGAAAGAAAGTAAGCTTTGTTAGCTATTAACCAATGAGATCCAGACAAAG 123461

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DB 123462 GACAAAT---ACTGACTGACAGTTTCCGATTTTGATTTGATTTGATTTACATTTGCTAA 123518
QY 655 TTGACCAAT---CTTAATTAATGTTCTTGATTAATGATTAATTTGCTTCTTAATTTT 709
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QY 710 AAGTTCTCTTAATTTTACTTTGTTATTTAGTCTCACTATTAATTTTCAAGTTTAATTTAG 769
DB 123579 CA---TGTGTTCTTCTTTTACTCTGTAGTCTTGCCACATTTTAAATTTTCTCTTG 123635
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DB 124020 AGTAAGCAATGCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 124079
QY 1250 AGATGCAAT---CCTTACCTCAGGATGATGATGATGATGATGATGATGATGATGATGAT 1304
DB 124080 GAATGCAATTAAGATCTTCACTTCACTTCACTTCACTTCACTTCACTTCACTTCACT 124139
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QY 1601 AATGACGATTAATTCAGGCTTTGAAGAGATGATTAATTAATTAATGCTGATTAATTA 1660
DB 124402 AATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 124461
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Best Local Similarity 54.9%; Pred. No. 1,7e-18;
Matches 704; Conservative 0; Mismatches 484; Indels 94; Gaps 16;

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QY 475 AAGAAATACAAAGCTTACCTGAGAAATTAATTCAGATTTTACAGATTTTACTT 534
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QY 655 TTGACACAAAT---CTTAATTAATGTTGATATATGATATATTTGCTCTTAATTTT 709
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ACCESSION
AY029704.1 GI:15418779
VERSION
AY029704.1
KEYWORDS
SOURCE
ORGANISM
Mus musculus (house mouse)
MUS
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
1 (bases 5273 to 5560)
Parks, C.L. and Sherk, T.
The serotonin 1A receptor gene contains a TATA-less promoter that responds to Maf and Sp1
J. Biol. Chem. 271 (8), 4417-4430 (1996)
PUBMED
96224025
JOURNAL
MEDLINE
6826793
AUTHORS
REFERENCE
2 (bases 1 to 5570)
Ansoerg, M., Tanneberger, C., Davies, B., Theuring, F. and Kusserow, H.
Functional analysis of the murine 5-HT1A receptor promoter in vitro and in vivo
Unpublished
3 (bases 1 to 5570)
REFERENCE
Kusserow, H., Ansoerg, M.S. and Theuring, F.
Direct Submision
JOURNAL
Submitted (10-Apr-2001) Institute for Pharmacology and Toxicology, Charite University Hospital, Dorotheenstr. 94, Berlin 10117, Germany

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ORIGIN
Query Match 4.7%; Score 144; DB 10; Length 5570;
Best Local Similarity 48.0%; Pred. No. 1.8e-15;
Matches 1326; Conservative 0; Mismatches 1286; Indels 151; Gaps 26;

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QY	417	TGAATTACTTGTGATTTTGGAAAACTTGTAT---AAATTTCACTCATAGCATTTGAAG	473
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Db	2594	ATATATAATCAAAATCCCGACTTTATATAACATAAGCTTCACATCGAA--AGCTCTTAATTT	2652
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QY	594	GCAGATTTCTAATCAATATTTATGATTTATTTGATTTTACATATTTACATGTGTTG	653
Db	2713	GAACAATTT---GCTAGCTAGACATGTTTCTCATTTAGTACCTTAATATTTTGCAATCTCTA	2769
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Db	2886	GGAAATTTTATGATGTTAAGTGTG-----CCCTTAATATTTCTG---CAGTTGCACTATATTT	2938
QY	829	AACGTAAATATAGTTCGTATTTGTGAAGACATTTGAAGTGAATATGATACCTTCA	888
Db	2939	TTTAAAAACATTTTAGCTCTGTTTGTGAGAGATTTTATCGAATATCTTACATGTTTAC	2998
QY	889	CAAACTTTAAAAGACTTCTTCAGAGCTCTGTAACAGCAATTACATGTAATCTTCTTT	948
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Db	3088	CTATCCTGAATAGATGGGGCCATCCATCTTTGGGCACATAGCCCTGATTTGATATGT	3147
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QY	1129	CTTTTGTTTGGGCTTGAGAAATTCAGAGCTATGAATTCAGAGCTCAGATTTGAAACACA	1188
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QY	1289	TATTAAGTAAA--TGTTGTGTGATGTTTACTGTATGTTGCTTAAGTCCATTTTATAC	1346
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Db	3733	GGAAAAAAAATATGGTTGAAGAAAAATTAAGTACATTTAAGGATTTTATTATTT	3792
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Db	3793	TATATATTTAGCCNNTCTTAATGCTGTATCCCTTTAGACACAGTTCCTCATGTGTGC	3852
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Oy	1887	CTGAACCCAGTTTCTGAGATTAAGAGAGGCTAGCCGGCTAGCGAACCCGGATTTCCACCAA	1946
Db	3973	TATGCTAGATCTTTGGGTTTCTTATATCTTATATTTTAAAGACAAATATTTCT	4032
Oy	1947	GTTTCCCCAGAGTTTTCGACAGCTCTGTGTAAAGATGCCAAAAGCCATGTGAATGCGAG	2006
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Db	4152	GCCATTAAGTTCCCTGGAGGGCTCGACAGCTCCAGTGAAGAGACATATATGTCAAAGACA	4211
Oy	2127	GTTTAGAATATATATCAACCTGAGTTTGTCTTCATTTGAGATGACGTTTACTCTC	2186
Db	4212	GTAGAAAAAGAAAGCATTTGTTAACAATATACAGCAAAACAATTTCTTCCATGAATTTA	4271
Oy	2187	TCTGTGTCCTTGAACAGTCCCTTAATAATTGCTGTCTCCCGGTTCCCAAGCTTAA	2246
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 Db 5159 TGG 5161

RESULT 13
 AF217200 2725 bp DNA linear ROD 13-MAR-2000
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 DEFINITION Rattus norvegicus serotonin 5-HT1A receptor gene, partial cds.
 ACCESSION AF217200
 VERSION AF217200.1 GI:6969399
 KEYWORDS
 SOURCE Rattus norvegicus (Norway rat)
 ORGANISM Rattus norvegicus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
 Rattus.
 1 (bases 1 to 2725)
 Storrington, M., Charest, A., Cheng, P. and Albert, P.R.
 TARD-driven transcriptional initiation and regulation of the rat
 serotonin 5-HT1A receptor gene
 J. Neurochem. 72 (6), 2238-2247 (1999)
 JOURNAL MEDLINE 99277334
 PUBMED 10349831
 2 (bases 1 to 2725)
 Ou, X.M., Jafar-Nejad, H., Storrington, J.M., Meng, J.H., Lemonde, S. and
 Albert, P.R.
 Novel dual repressor elements for neuronal cell-specific
 transcription of the rat 5-HT1A receptor gene
 J. Biol. Chem. 275 (11), 8161-8168 (2000)
 JOURNAL MEDLINE 20179926
 PUBMED 10713139
 3 (bases 1 to 2725)
 Storrington, J.M. and Albert, P.R.
 Direct Submission

JOURNAL Submitted (16-DEC-1999) Neuroscience Res. Inst., University of
 FEATURES Ottawa, 451 Smyth Road, Ottawa, ON K1H-8W5, Canada
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 /product="serotonin 5-HT1A receptor"
 CDS 2720..32725
 /note="G protein-coupled receptor"
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 Best Local Similarity 57.9%; Pred. No. 1.2e-14;
 Matches 402; Conservative 0; Mismatches 249; Indels 43; Gaps 7;
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 Db 218 CCATCTTCAGGTACACAGCCCTGGGTTAT-ATATTTCTGCCCACCTGACCTTCTTGAT 276
 QY 1114 GCTTGGTATGCTCTTTTGTGGGCTTGGAGATTCAGACTATGAAATCAAGAGCT 1173
 Db 277 GCTTGGTATGCTCTTTTGTGGGCTTGGAGATTCAGACTATGAAATCAAGAGCT 335
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GenCore version 5.1.6
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Maximum DB seq length: 200000000000

Post-processing: Minimum Match 0%

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SUMMARIES

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	4	747.8	24.6	2722	5	AaF75003	AaF75003	Part of H
	5	742.4	24.4	839	3	AaC71827	AaC71827	Single nu
	6	742.4	24.4	839	3	AaC71824	AaC71824	Single nu
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	12	82.4	2.7	6636	6	ABL33791	ABL33791	Human imm
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	14	81.2	2.7	8056	7	ABZ10246	ABZ10246	Haematopo
	15	80.8	2.6	700	4	AaH93026	AaH93026	Human int
	16	78.6	2.6	19787	6	ABL33451	ABL33451	Human imm
	17	77.8	2.6	6063	6	ABK28394	ABK28394	DNA trans
	18	77	2.5	19634	7	ABZ10161	ABZ10161	Haematopo
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	20	75.2	2.5	6317	6	ABL33408	ABL33408	Human imm
	21	75.2	2.5	6317	6	ABL49311	ABL49311	Human pol
	22	75.2	2.5	6465	6	ABL32985	ABL32985	Human imm
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	27	74.8	2.5	5.145	6	ABJ34464	Human met
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	33	74	2.4	12.337	6	ABJ34358	Human imm
	34	73.8	2.4	1.9634	7	ABK10015	Haematopo
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	36	73.6	2.4	4.985	6	ACF79720	Mosquito
	37	73.6	2.4	8.222	7	ACF62794	Colo1 can
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	43	72.2	2.4	3.2362	6	ABE56293	EMPV gen
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	45	72	2.4	5511	6	ABJ33871	Human imm

ALIGNMENTS

RESULT 1
AAH88467/C

DT 26-FEB-2002 (first entry)
XX
DE CNS disorder-related biallelic marker #1 from 5HT1A gene

Single nucleotide polymorphism; SNP; biallelic marker; human
KW central nervous system disorder; CNS; serotonin receptor; ds

OS Homo sapiens

	Location/Qualifiers
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FT	misc_feature
FT	/tag= a
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PN W0200151659-A2.

PD 19-JUL-2001

PF 11-JAN-2001; 2001WO-IB000116.

PR 13-JAN-2000; 2000US-0175854P.
VY

PA (GEST) GENSET.
YY

PI Chu T, Blumentfeld M, Cohen D
YY

DR WPI; 2001-483085/52
XX

PT Isolated polynucleotides, useful for genotyping nucleic acids for biallelic markers for the diagnosis of depression, comprises central nervous system disorder related biallelic marker.

PS Claim 1; Page 335-336; 519pp; English.

The present invention relates to biallelic markers derived from human CC genes involved in central nervous system (CNS) disorders. The present CC sequence is one such biallelic marker derived from a human serotonin CC receptor gene. This marker has a single nucleotide polymorphism (SNP) and is useful in determining the genetic predisposition of individuals to CC disorders, by identifying the nucleotides at a set of genetic markers in


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ID AAH8468 standard; DNA; 3001 BP.
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AC AAH8468;
XX
DT 26-FEB-2002 (first entry)
XX
XX CNS disorder-related biallelic marker #2 from 5HT1A gene.
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XX Single nucleotide polymorphism; SNP; biallelic marker; human;
KM central nervous system disorder; CNS; serotonin receptor; ds.
XX
OS Homo sapiens.
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XX WO200151659-A2.
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XX 19-JUL-2001.
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XX 11-JAN-2001; 2001WO-1B00116.
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XX 13-JAN-2000; 2000US-0175854P.
XX
XX (GEST ) GENSET.
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XX Chu T, Blumenfeld M, Cohen D;
XX
XX MPI; 2001-483085/52.
XX
XX Isolated polymorphisms, useful for genotyping nucleic acids for
XX biallelic markers for the diagnosis of depression, comprises central
XX nervous system disorder related biallelic marker.
XX
XX Claim 1; Page 337; 519pp; English.
XX
XX The present invention relates to biallelic markers derived from human
XX genes involved in central nervous system (CNS) disorders. The present
XX sequence is one such biallelic marker derived from a human serotonin
XX receptor gene. This marker has a single nucleotide polymorphism (SNP) and
XX is useful in determining the genetic predisposition of individuals to CNS
XX disorders, by identifying the nucleotides at a set of genetic markers in
XX a biological sample, where the markers comprise at least one CNS disorder
XX related marker
XX
XX Sequence 3001 BP; 654 A; 799 C; 856 G; 678 T; 0 U; 14 Other;
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XX Query Match 32.2%; Score 979.4; DB 4; Length 3001;
XX Best Local Similarity 98.7%; Pred. No. 7.2e-176;
XX Matches 1005; Conservative 0; Mismatches 11; Indels 2; Gaps 2;
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XX 9 AANAATATTTCCATCCCTGAATTTACTAGCCACAAAGCTATGGAGAGTGCATCTACTG 68
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DB 369 AATGAGCGGAGAGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 428
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DB 429 AATGAGCGGAGAGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 488
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XX AC AAF75001;
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XX DT 08-MAY-2001 (first entry)
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XX DE
XX 5-hydroxy tryptamine receptor 1A; 5HT1A; polymorphism; Tourette's;
XX neuropsychiatric; ds.
XX
XX OS Homo sapiens.
XX
XX PN WO200110884-A1.
XX
XX PD 15-FEB-2001.
XX
XX 01-AUG-2000; 2000WO-US040519.
XX
XX 06-AUG-1999; 99US-0147711P.
XX
XX PR
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XX (GENA-) GENAISSANCE PHARM INC.
 XX Denton RR, Klieem SE, Nandabalan K, Stephens JC;
 XX WPI; 2001-191514/19.
 XX
 PT New 5-hydroxy tryptamine receptor 1A gene variants for studying
 PT expression and biological function of the gene and for developing drugs
 PT targeting 5-hydroxy tryptamine receptor 1A protein.
 XX
 PS Disclosure: Fig 1; 64pp; English.
 XX
 CC The present invention relates to 5-hydroxy tryptamine receptor 1A (HTR1A)
 CC gene. HTR1A-encoding polynucleotides containing one or more of the novel
 CC polymorphic sites are useful in studying the expression and biological
 CC function of HTR1A, as well as in developing drugs targeting this protein.
 CC In addition, information on the combinations of polymorphisms in the
 CC HTR1A gene may have diagnostic and forensic applications. A polymorphic
 CC variant of HTR1A is useful in studying the effect of the variation on the
 CC biological activity of HTR1A as well as studying the binding affinity of
 CC candidate drugs targeting HTR1A for the treatment of neuropsychiatric
 CC diseases and Tourette's syndrome
 CC
 SQ Sequence 1204 BP; 283 A; 266 C; 394 G; 261 T; 0 U; 0 Other;
 Query Match 24.6%; Score 747.8; DB 5; Length 1204;
 Best Local Similarity 98.9%; Pred. No. 4.3e-132;
 Matches 774; Conservative 0; Mismatches 7; Indels 2; Gaps 2;
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 DB 181 CCATCAATTAGCATATATTGGAGACTGACCCAGAGCTGTTACCTTCCATTGAGGCTC 240
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 AC AAF75003;
 XX
 DT 08-MAY-2001 (first entry)
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 DE Part of HTR1A gene #3.
 XX
 KM 5-hydroxy tryptamine receptor 1A; HTR1A; polymorphism; Tourette's;
 KM neuropsychiatric; ds.
 XX
 OS Homo sapiens.
 XX
 PN MO200110884-A1.
 PD 15-FEB-2001.
 PF 01-AUG-2000; 2000MO-US040519.
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 PR 06-AUG-1999; 99US-0147711P.
 XX
 PA (GENA-) GENAISSANCE PHARM INC.
 XX Denton RR, Klieem SE, Nandabalan K, Stephens JC;
 XX WPI; 2001-191514/19.
 DR
 XX
 PT New 5-hydroxy tryptamine receptor 1A gene variants for studying
 PT expression and biological function of the gene and for developing drugs
 PT targeting 5-hydroxy tryptamine receptor 1A protein.
 XX
 PS Claim 1; Fig 3; 64pp; English.
 XX
 CC The present invention relates to 5-hydroxy tryptamine receptor 1A (HTR1A)
 CC gene. HTR1A-encoding polynucleotides containing one or more of the novel
 CC polymorphic sites are useful in studying the expression and biological
 CC function of HTR1A, as well as in developing drugs targeting this protein.
 CC In addition, information on the combinations of polymorphisms in the
 CC HTR1A gene may have diagnostic and forensic applications. A polymorphic
 CC variant of HTR1A is useful in studying the effect of the variation on the
 CC biological activity of HTR1A as well as studying the binding affinity of
 CC candidate drugs targeting HTR1A for the treatment of neuropsychiatric
 CC diseases and Tourette's syndrome
 CC
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 Query Match 24.6%; Score 747.8; DB 5; Length 2722;
 Best Local Similarity 98.9%; Pred. No. 5e-132; 7; Indels 2; Gaps 2;
 Matches 774; Conservative 0; Mismatches 7; Indels 2; Gaps 2;
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 DB 1 ATTCTCCCTGAGGAGTAAGCTGAGCTGTAGATGATTAACGAGATACCGTTTGTGT 60
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Db 361 CAGTTTCTGGGTTTGAGGCGGAGTTTATTTGTTACACCTTGTGACCGGCAAGGA 420
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Db 421 CTTGGTGTGTAAAGTAGTCTGAGTCTCTGTTGACAAAAGAGACTCGAATGCAAGA 480
QY 2743 CGTGAAGCTAAGAGAGAGAGGCGGAGACCCAGAGAAAGAGCACTCTCGGGGTTG 2802
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QY 3043 TCG 3045
Db 780 TCG 782

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RESULT 5
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AC AAC71827;
XX
DT 09-FEB-2001 (first entry)
XX
DE Single nucleotide polymorphism containing sequence #552.
XX
KW Single nucleotide polymorphism; SNP; human; genetic disease;
XX disease susceptibility; cardiovascular system; endocrine system;
XX neurological system; forensic testing; paternity testing; ds.
XX
OS Homo sapiens.
XX
PN WO200058519-A2.
XX
BD 05-OCT-2000.
XX
30-MAR-2000; 2000WO-US008440.
XX
31-MAR-1999; 99US-0127248P.

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XX (WHEED) WHITEHEAD INST BIOMEDICAL RES.
PA (AFY-) AFYMETRIX INC.
PI Altschuler D, Cargill M, Daley GQ, Ireland JS, Lander ES,
PI Lipshutz RJ, Patil N, Sklar P,
DR WPI; 2000-611722/58.
XX
PT Nucleic acid selected from one of 106 genes comprising single nucleotide
PT polymorphisms, allele-specific oligonucleotides to the genes are useful
PT for phenotypic correlations, forensics, paternity testing, medicine and
PT genetic analysis.
XX
PS Claim 1, Fig 5; 214pp; English.
XX
CC The present invention is concerned with a number of human single
CC nucleotide polymorphisms (SNPs) which the inventors identified in human
CC genes. These SNPs can be used in disease diagnosis and prediction of an
CC individual's susceptibility to disease, in forensic and paternity testing
CC and in genetic mapping. In particular, the SNPs of the invention can be
CC used to diagnose susceptibility to diseases of the cardiovascular,
CC endocrine and neurological systems, such as coronary artery disease,
CC schizophrenia, cancer, autoimmune diseases, Alzheimer's and Parkinson's
CC diseases. Note: The degenerate codon within the sequence represents the
CC position of an SNP, for example the letter S represents a polymorphism
CC where the nucleotide may be C or G
XX
SQ Sequence 839 BP; 212 A; 148 C; 287 G; 191 T; 0 U; 1 Other;
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QY 2329 TCGTGTGTGTGTTGTTTGTGAGAGAGAGTCTGCTCTGTGCGGAGCTGAGTGC 2388
Db 61 TCGTGTGTGTGTTGTTTGTGAGAGAGAGTCTGCTCTGTGCGGAGTGTGAGTGC 120
QY 2389 AATGCGGAGAAACGAGAGTAGCTTTTAAAAAGAGAGACACTGCTTCTTCATC 2448
Db 121 AATGCGGAGAAACGAGAGTAGCTTTTAAAAAGAGAGACACTGCTTCTTCATC 180
QY 2449 AATTGCAATTAATTTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2508
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QY 2509 GCTTCTTCTTCATCTCTATTTGACACTCTGAGATGCTGACAGATTTAAGATTTG 2568
Db 241 GCTTCTTCTTCATCTCTATTTGACACTCTGAGATGCTGACAGATTTAAGATTTG 300
QY 2569 AGATTAATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2628
Db 301 AGATTAATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
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QY 2808 GTATTAGAGGAGAGAGGTTAGAGTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2867
Db 541 GTATTAGAGGAGAGAGGTTAGAGTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 599

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PR 31-MAR-1999; 99US-0127248P.
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CC and in genetic mapping. In particular, the SNPs of the invention can be
CC used to diagnose susceptibility to diseases of the cardiovascular,
CC endocrine and neurological systems, such as coronary artery disease,
CC schizophrenia, cancer, autoimmune diseases, Alzheimer's and Parkinson's
CC diseases. Note: The degenerate codon within the sequence represents the
CC position of an SNP, for example the letter S represents a polymorphism
CC where the nucleotide may be C or G
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Matches 768; Conservative 1; Mismatches 7; Indels 2; Gaps 2;
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DB 1 CCTGAGGAGTAAAGCTGAGCTGTGATGATGATGATGAGGAGTACCGTTTGTGTTG 60
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DB 121 AATGCGCGAGAGCGAGGTAGCTTTTAAAGAGAGACACTGGCTTCCTTCATC 180
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DB 181 AATTAGCAATATTGGAGAGTACCCAGAGACTGTTCACTTCCATTCAGGCTCCCTAT 240
QY 2509 GCTTCCTTTCTATCTCCATTGCGACTGCGGAGTCTACACGATTAGAAATTGGC 2568
DB 241 GCTTCCTTTCTATCTCCATTGCGACTGCGGAGTCTACACGATTAGAAATTGGC 300
QY 2569 AGATTAATATGAGGAGAGAGTATGGAATTCCTCCCAAGTTTTCACCCAGTT 2628
DB 301 AGATTAATATGAGGAGAGAGTATGGAATTCCTCCCAAGTTTTCACCCAGTT 360
QY 2629 TTGCTGGGTGAGAGCGAGTTTATTTGTTACAACTTGTCTGACCGGGA-GGATCTGG 2687
DB 361 TTGCTGGGTGAGAGCGAGTTTATTTGTTACAACTTGTCTGACCGGGA-GGATCTGG 420
QY 2688 TGTGTGTAAGTGAATTCGTCTGTGACAAAGAGACTGATGCAAGAGCTG 2747
DB 421 TGTGTGTAAGTGAATTCGTCTGTGACAAAGAGACTGATGCAAGAGCTG 480
QY 2748 AGCTAGAGAGAGAGAGAGCGGGGAGCCAGAGAGAAAGAGCACTCTCGGGGTTGGGAA 2807
DB 481 AGCTAGAGAGAGAGAGAGCGGGGAGCCAGAGAGAAAGAGCACTCTCGGGGTTGGGAA 540
QY 2808 GTATTAGAGAGAGAGAGTATGAGTGGAGGAGAGAGAGCTGCTTTCAGAGCACTACA 2867

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DB 541 GTATTAGAGAGAGAGAGTATGAGTGGAGGAGAGAG-CTCGCTTTCAGAGCACTACA 599
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XX
XX RESULT 8
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XX ID AAH88477 strand; DNA; 2512 BP.
XX AC AAH88477;
XX XX 26-FEB-2002 (first entry)
XX DT
XX DE CNS disorder-related biallelic marker #11 from 5HT1A gene.
XX KW Single nucleotide polymorphism; SNP; biallelic marker; human;
XX KW central nervous system disorder; CNS; serotonin receptor; ds.
XX OS Homo sapiens.
XX FH Key Location/Qualifiers
XX FT misc_feature 1501
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XX FT /standard_name= "single nucleotide polymorphism"
XX XX WO200151659-A2.
XX PD 19-JUL-2001.
XX XX 11-JAN-2001; 2001MO-1B000116.
XX PR 13-JAN-2000; 2000US-0175854P.
XX XX (GENSET ) GENSET.
XX PA Chu T, Blumenfeld M, Cohen D;
XX PI
XX XX WPI; 2001-483085/52.
XX DR
XX PT Isolated polynucleotides, useful for genotyping nucleic acids for
XX PT biallelic markers for the diagnosis of depression, comprises central
XX PT nervous system disorder related biallelic marker.
XX PS Claim 1; Page 344-345; 519pp; English.
XX XX
XX CC The present invention relates to biallelic markers derived from human
XX CC genes involved in central nervous system (CNS) disorders. The present
XX CC sequence is one such biallelic marker derived from a human serotonin
XX CC receptor gene. This marker has a single nucleotide polymorphism (SNP) and
XX CC is useful in determining the genetic predisposition of individuals to CNS
XX CC disorders, by identifying the nucleotides at a set of genetic markers in
XX CC a biological sample, where the markers comprise at least one CNS disorder
XX CC related marker
XX XX
XX SQ Sequence 2512 BP; 537 A; 698 C; 748 G; 522 T; 0 U; 7 Other;
XX
XX Query Match 17.2%; Score 522.4; DB 4; Length 2512;
XX Best Local Similarity 98.6%; Pred. No. 2.3e-89;
XX Matches 548; Conservative 0; Mismatches 6; Indels 2; Gaps 2;
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DB 1 CCCATTGAGGCTCCCTATGCTTCCTTTCTCATCTCATTCGCACTCGGAGATGCTAC 60

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Chromosome	Position (kb)	Gene	Sequence	Position (kb)	Gene	Sequence
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Db	61	ACGATTTAAGAAATTTGGCAGATTAATAATAGGCAAGAGATAGTGGAAATTCCTCCCCAA	120	Db	121	GTTTTTTCCAAACCCCAAGTTTCTCTGGGTTTGAAGCGGAGTTATTTGTTTCAACCTTGCTC
QY	2671	TGACCCGGCA -GGATCTGATGTGTGTAATGAAGTTCTAGAGTCTCTGTTGACAAAGAGAC	2729	QY	2671	TGACCCGGCA -GGATCTGATGTGTGTAATGAAGTTCTAGAGTCTCTGTTGACAAAGAGAC
Db	181	TGACCCGGCAAGGGAAGCTGATGTGTGTAATGAAGTTCTAGAGTCTCTGTTGACAAAGAGAC	240	Db	181	TGACCCGGCAAGGGAAGCTGATGTGTGTAATGAAGTTCTAGAGTCTCTGTTGACAAAGAGAC
QY	2730	TCGAATGCAAAAGACGCTGAGCTTAAGAGGAGAGAGAGGCGGGGACCCAGAGGAAAGAGCA	2789	QY	2730	TCGAATGCAAAAGACGCTGAGCTTAAGAGGAGAGAGAGGCGGGGACCCAGAGGAAAGAGCA
Db	241	TCGAATGCAAAAGACGCTGAGCTTAAGAGGAGAGAGAGGCGGGGACCCAGAGGAAAGAGCA	300	Db	241	TCGAATGCAAAAGACGCTGAGCTTAAGAGGAGAGAGAGGCGGGGACCCAGAGGAAAGAGCA
QY	2790	CTCTCTGGGGTTGGGGAGTAATTAAGAGGAGGAGGGTTGAGTGGGAGGAGAGAGAGCTCG	2849	QY	2790	CTCTCTGGGGTTGGGGAGTAATTAAGAGGAGGAGGGTTGAGTGGGAGGAGAGAGAGCTCG
Db	301	CTCTCTGGGGTTGGGGAGTAATTAAGAGGAGGAGGGTTGAGTGGGAGGAGAGAGAGCTCG	359	Db	301	CTCTCTGGGGTTGGGGAGTAATTAAGAGGAGGAGGGTTGAGTGGGAGGAGAGAGAGCTCG
QY	2850	CTTTCGAAGCGACTCACAGAGGAGTAATTAAGAGGAGGAGGAGGAGGAGGAGGAGCTGA	2909	QY	2850	CTTTCGAAGCGACTCACAGAGGAGTAATTAAGAGGAGGAGGAGGAGGAGGAGGAGGAGCTGA
Db	360	CTTTCGAAGCGACTCACAGAGGAGTAATTAAGAGGAGGAGGAGGAGGAGGAGGAGGAGCTTA	419	Db	360	CTTTCGAAGCGACTCACAGAGGAGTAATTAAGAGGAGGAGGAGGAGGAGGAGGAGGAGCTTA
QY	2910	AAGGGAAGGACAGGTGGGAGAGAGGAGGAGCGAAAGAGGAGAGAGAGAGAGAGAGAGAGG	2965	QY	2910	AAGGGAAGGACAGGTGGGAGAGAGGAGGAGCGAAAGAGGAGAGAGAGAGAGAGAGAGAGG
Db	420	AAGGGAAGGACAGGTGGGAGAGAGGAGGAGCGAAAGAGGAGAGAGAGAGAGAGAGAGAGG	479	Db	420	AAGGGAAGGACAGGTGGGAGAGAGGAGGAGCGAAAGAGGAGAGAGAGAGAGAGAGAGAGG
QY	2970	AGAGAGGGGGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	3029	QY	2970	AGAGAGGGGGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
Db	480	AGAGAGGGGGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	539	Db	480	AGAGAGGGGGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
QY	3030	AGGATGGGGCTTCGCG 3045		QY	3030	AGGATGGGGCTTCGCG 3045
Db	540	AGGATGGGGCTTCGCG 555		Db	540	AGGATGGGGCTTCGCG 555

PT	distinguishes between methylated and non-methylated CpG dinucleotides
XX	
PS	Claim 28; SEQ ID NO 386; 117pp; English.

CC The present invention describes a method for detecting and
CC differentiating between haematopoietic cell proliferative disorders
CC associated with at least 1 gene and/or their regulatory regions in a
CC subject. The method comprises contacting a target nucleic acid in a
CC biological sample obtained from the subject with at least 1 reagent,
CC which distinguishes between methylated and non-methylated CpG
CC dinucleotides within the target nucleic acid. AB209861 to AB21118
CC represent specifically claimed nucleotide sequences from the present
CC invention. Oligonucleotides from the present invention can be used: for
CC differentiating between healthy haematopoietic cells and proliferative
CC disorder haematopoietic cells; for differentiating between acute
CC lymphocytic leukaemia and acute myelogenous leukaemia; as probes for
CC determining the cytosine methylation state and/or single nucleotide
CC polymorphisms (SNPs) of haematopoietic cell proliferation disorder
CC related sequences and their complements; and as primers for the
CC amplification of haematopoietic cell proliferation disorder related DNA
CC sequences. The nucleotide sequences from the present invention can also
CC be used for detecting a predisposition to, differentiation between
CC subclasses, diagnosis, prognosis, treatment and/or monitoring of
CC haematopoietic cell proliferative disorders. The present method enables
CC highly specific classification of haematopoietic cell proliferative
CC disorders allowing for improved and informed treatment of patients
XX
XX Sequence 8056 BP; 3711 A; 0 C; 371 G; 3974 T; 0 U; 0 Other;
XQ

Query Match	2.9%	Score 89.2	DB 7	Length 8056
Best Local Similarity	47.0%	Pred. No. 2.9e-07		
Matches 357; Conservative	5	Mismatches 393	Indels 5	Gaps 3

[illegible]

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

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SUMMARIES

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5	1381.4	45.4	2112	76	US-60-205-423-94	Sequence 94, Appl
6	747.8	24.6	1204	1	PRT-US00-40519-1	Sequence 1, Appl
7	747.8	24.6	1204	43	US-10-049-407-1	Sequence 1, Appl
8	747.8	24.6	2722	1	PRT-US00-40519-3	Sequence 3, Appl
9	747.8	24.6	2722	43	US-10-049-407-3	Sequence 3, Appl
10	742.4	24.4	839	23	US-09-541-946-2478	Sequence 2478, Ap
11	742.4	24.4	839	23	US-09-541-946-2478	Sequence 2478, Ap
12	742.4	24.4	839	23	US-09-541-946-2478	Sequence 2478, Ap
13	428.2	14.1	559	26	US-09-634-3066-156186	Sequence 2479, Ap
14	428.2	14.1	559	26	US-09-634-3066-156187	Sequence 16186, A
15	428.2	14.1	559	43	US-10-027-632-196187	Sequence 16186, A
16	428.2	14.1	559	43	US-10-027-632-196187	Sequence 16187, A
17	361.2	11.9	378	21	US-09-528-009-45109	Sequence 45109, A
18	361.2	11.9	378	38	US-09-528-009-45109	Sequence 45109, A
19	361.2	11.9	378	38	US-09-528-009-45109	Sequence 45109, A
20	320.2	10.5	452	21	US-09-528-409-48578	Sequence 48578, A
21	320.2	10.5	452	38	US-09-528-409-48578	Sequence 48578, A
22	320.2	10.5	452	38	US-09-528-409-48578	Sequence 48578, A
23	194.8	6.4	241	23	US-09-543-524-134492	Sequence 14492, A
24	174.6	5.7	201	107	US-60-500-315-21639	Sequence 21639, A
25	125.6	4.1	7218	8	US-09-466-194-14	Sequence 14, Appl
26	95	3.1	1275	48	US-10-266-090-36380	Sequence 36380, A
27	89.2	2.9	8056	52	US-10-473-126-386	Sequence 386, App
28	88.4	2.9	1111	76	US-60-207-458-37399	Sequence 37399, A
29	86.4	2.9	8056	52	US-10-473-126-240	Sequence 240, App
30	86.4	2.8	970	48	US-10-266-090-30537	Sequence 30537, A
31	85.8	2.8	192014	81	US-60-248-823-33	Sequence 33, Appl
32	85.6	2.8	144759	78	US-60-226-176-511	Sequence 511, App
33	85.6	2.8	144759	79	US-60-233-468-511	Sequence 511, App
34	85.6	2.8	144759	88	US-60-313-371-511	Sequence 511, App
35	85.4	2.8	1326	28	US-09-663-779-8205	Sequence 8205, App
36	85	2.8	618	20	US-09-404-520-13571	Sequence 13571, A
37	83.6	2.7	824	76	US-60-207-458-18907	Sequence 18907, A
38	83.6	2.7	2453797	39	US-09-947-911-331	Sequence 331, App
39	83.4	2.7	1040	48	US-10-266-090-12299	Sequence 12299, A
40	83.2	2.7	11745	47	US-10-240-453-206	Sequence 206, App
41	83	2.7	742	28	US-09-663-779-3024	Sequence 3024, Ap
42	83	2.7	1140	48	US-10-266-090-19455	Sequence 19455, A
43	83	2.7	1871569	39	US-09-949-016-12776	Sequence 12776, A
44	83	2.7	191569	39	US-09-949-016-15940	Sequence 15940, A
45	82.8	2.7	1107	48	US-10-266-090-23011	Sequence 23011, A

ALIGNMENTS

```

RESULT 1
US-09-430-412A-1
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/ Sequence 1, Application US/09430412A
/
/ GENERAL INFORMATION:
/
/ APPLICANT: Albert Paul, and Lemond, Sylvie
/ TITLE OF INVENTION: Mutations of the 5' region of the human 5-HT1A gene
/ TITLE OF INVENTION: Mutations of the 5' region of the 5' region and a diagnostic
/ TITLE OF INVENTION: test for major depression and related mental illnesses
/ FILE REFERENCE: 88101401
/ CURRENT APPLICATION NUMBER: US/09/430,412A
/ CURRENT FILING DATE: 1998-10-29
/ PRIOR APPLICATION NUMBER: 60/106,375
/ PRIOR FILING DATE: 1995-10-30
/ NUMBER OF SEQ ID NOS: 7
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 1
/ LENGTH: 3045
/ TYPE: DNA
/ ORGANISM: human

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US-09-430-412A-1									
Query Match	99.9%	Score 3042.2	DB 20	Length 3045					
Best Local Similarity	100.0%	Pid. No. 0							
Matches 3045	Conservative 0	Mismatches 0	Indels 0	Gaps 0					
QY	1	ATCATCATATAATATCCGTTATTAAGAGCTTCTTTCTTTAGGTTAACTTAGAGGCGCTTGA	60						
DB	1	ATCATCATATAATATCCGTTATTAAGAGCTTCTTTCTTTAGGTTAACTTAGAGGCGCTTGA	60						
QY	61	AGATTAAGAGCTCATCTCTTACAGAGGCTTGGTTTGCAGACTTACTTAAGAAATAT	120						
DB	61	AGATTAAGAGCTCATCTCTTACAGAGGCTTGGTTTGCAGACTTACTTAAGAAATAT	120						
QY	121	TGATATCTGATCTTTAGAGTTAAACATAGAAGATTGGCTAAGTAAATGATGAA	180						
DB	121	TGATATCTGATCTTTAGAGTTAAACATAGAAGATTGGCTAAGTAAATGATGAA	180						
QY	181	ACGGAATATCATCTTGGATATTAATTTATTAATCAAGTATTTAGTTTAAAG	240						
DB	181	ACGGAATATCATCTTGGATATTAATTTATTAATCAAGTATTTAGTTTAAAG	240						
QY	241	TTAAACATTAATATCTATTAATGTCATGSAAGATAGVSAACCTATCTGCTGGAA	300						
DB	241	TTAAACATTAATATCTATTAATGTCATGSAAGATAGVSAACCTATCTGCTGGAA	300						
QY	301	TACCTTGATACCTCTGTTCCGCCAGATTCATAGTGGCTTGGTAAACGTTT	360						
DB	301	TACCTTGATACCTCTGTTCCGCCAGATTCATAGTGGCTTGGTAAACGTTT	360						
QY	361	AATGTGAGAAATTAATGTTGATATATATATATATTTACTAGAAAAAATTGAA	420						
DB	361	AATGTGAGAAATTAATGTTGATATATATATATATTTACTAGAAAAAATTGAA	420						
QY	421	TTATCTTGGATTTGAAAAAATTGATATTAATCTCACTCATAGATTTGAGCAAAAT	480						
DB	421	TTATCTTGGATTTGAAAAAATTGATATTAATCTCACTCATAGATTTGAGCAAAAT	480						
QY	481	AACAAATGCTATACCTCAGGAATATTAATCCAGATTTTACAGATTTTAACTTCTTGA	540						
DB	481	AACAAATGCTATACCTCAGGAATATTAATCCAGATTTTACAGATTTTAACTTCTTGA	540						
QY	541	TGAGAAAAAATTAATTTGAGTATTAATCTAATTTGATGCAACAGATGAAGCAGAT	600						
DB	541	TGAGAAAAAATTAATTTGAGTATTAATCTAATTTGATGCAACAGATGAAGCAGAT	600						
QY	601	TCTACTACATATTAATTAATGATTAATTTGATTTACATATTTACATGTTGTTGACA	660						
DB	601	TCTACTACATATTAATTAATGATTAATTTGATTTACATATTTACATGTTGTTGACA	660						
QY	661	CAATCTTAATTAATGTTCTGATGATGATATTAATTTGCTCTTAAATTTAAAGTTCTTT	720						
DB	661	CAATCTTAATTAATGTTCTGATGATGATATTAATTTGCTCTTAAATTTAAAGTTCTTT	720						
QY	721	AATTTACTTGTATTAGTCTCAACTATAATTTCAAGTTTAAATTTAGATAATTCAGCC	780						
DB	721	AATTTACTTGTATTAGTCTCAACTATAATTTCAAGTTTAAATTTAGATAATTCAGCC	780						
QY	781	TTTTAAATATTTTCCCATTAATTTTGGAGCTGCACTCAATTTTAACTGAATAT	840						
DB	781	TTTTAAATATTTTCCCATTAATTTTGGAGCTGCACTCAATTTTAACTGAATAT	840						
QY	841	AGTTCTGATTTGTGAAGACTTTAGAACTTGAAATATGATACCTTCAAAATCTTAA	900						
DB	841	AGTTCTGATTTGTGAAGACTTTAGAACTTGAAATATGATACCTTCAAAATCTTAA	900						
QY	901	GACTCTTCAGAGCTCTGTAACAGACTTACAGATTAATCTTCTTTTGGATGCG	960						
DB	901	GACTCTTCAGAGCTCTGTAACAGACTTACAGATTAATCTTCTTTTGGATGCG	960						
QY	961	ATGATATCATCAATGCATGGCTCATGTGTGGCATGCTGAATATTAATGAATGGAGCTGTC	1020						
DB	961	ATGATATCATCAATGCATGGCTCATGTGTGGCATGCTGAATATTAATGAATGGAGCTGTC	1020						

QY	1021	TAGCTGAACCTTTAAAAAAGAAAAA	CAAAACAACCTTATCCAAACACAGCTCCTGAT	1089
Db	1021	CAGCTGAACCTTTAAAAAAGAAAAA	CAAAACAACCTTATCCAAACACAGCTCCTGAT	1089
QY	1081	GTAAATGCATGGCCCAACTGGATCT	TTTGTGATGCTTTGCTCTTTGTGGG	1140
Db	1081	GTAAATGCATGGCCCAACTGGATCT	TTTGTGATGCTTTGCTCTTTGTGGG	1140
QY	1141	CTTGAGAGATTCAGAGCGATGAAT	TTGAGATTTGAACAAATATTAAGATAT	1200
Db	1141	CTTGAGAGATTCAGAGCGATGAAT	TTGAGATTTGAACAAATATTAAGATAT	1200
QY	1201	TGCATCTGTAGTAATCTGTCAAT	GTTATCTCACTGCTTTTGAGATTCTC	1260
Db	1201	TGCATCTGTGTAGTAATCTGTCAAT	GTTATCTCACTGCTTTTGAGATTCTC	1260
QY	1261	CTTTCACTCAGGCGATGCAATCAG	ATGATPAAGTGAATGTGTGTGATTTCTG	1320
Db	1261	CTTTCACTCAGGCGATGCAATCAG	ATGATPAAGTGAATGTGTGTGATTTCTG	1320
QY	1321	TAGTTGCTTAGAAGCTCAATCTTT	ACCANTGCTCAATGTGATTAATTTGTTTCTGTG	1380
Db	1321	TAGTTGCTTAGAAGCTCAATCTTT	ACCANTGCTCAATGTGATTAATTTGTTTCTGTG	1380
QY	1381	TAAAGSAAACAGCTTAGAACAAAC	CCCTGTGAATGATCTTTTACAGATTTAAACATTT	1440
Db	1381	TAAAGSAAACAGCTTAGAACAAAC	CCCTGTGAATGATCTTTTACAGATTTAAACATTT	1440
QY	1441	CCAAATGTTAAATCATTTGGAAAA	TGCATATCTATTCGTTCTCCAAACAAAGGTAATTT	1500
Db	1441	CCAAATGTTAAATCATTTGGAAAA	TGCATATCTATTCGTTCTCCAAACAAAGGTAATTT	1500
QY	1501	TATGTCAAGTTCCAAAGTTCAAG	TTATATGACACACAAACACAGGTGAAGTTAG	1560
Db	1501	TATGTCAAGTTCCAAAGTTCAAG	TTATATGACACACAAACACAGGTGAAGTTAG	1560
QY	1561	CTTACCTTATTTAAATATGCAAT	TCCCACTTGAATGACATCTTCAAGCT	1620
Db	1561	CTTACCTTATTTAAATATGCAAT	TCCCACTTGAATGACATCTTCAAGCT	1620
QY	1621	TTCCAGAGAACTTAAACATATTA	TATAGCCCTGATATATAGGTTCAAGCAAAAGAGGCG	1680
Db	1621	TTCCAGAGAACTTAAACATATTA	TATAGCCCTGATATATAGGTTCAAGCAAAAGAGGCG	1680
QY	1681	ACTAAATTAATTTTTTAAAGAAA	TAGSAGAGACAAACTCATATCTACTTGTCTTTT	1740
Db	1681	ACTAAATTAATTTTTTAAAGAAA	TAGSAGAGACAAACTCATATCTACTTGTCTTTT	1740
QY	1741	TATATACCTGTCTCTCTCTTTT	CTAAAGTGTGTATTTCCCTCATATCTTGCTTATCTCT	1800
Db	1741	TATATACCTGTCTCTCTCTTTT	CTAAAGTGTGTATTTCCCTCATATCTTGCTTATCTCT	1800
QY	1801	GGCATTAAGGGTTTCCAGATGSC	ACTTAAACATTTGCGACAGAGTGGCGCAATATAAC	1860
Db	1801	GGCATTAAGGGTTTCCAGATGSC	ACTTAAACATTTGCGACAGAGTGGCGCAATATAAC	1860
QY	1861	CTCATATGTTTGAACCTGTCCAG	GTGCTGAACCCAGTTTCTGAATTAAGAGAGCTAGC	1920
Db	1861	CTCATATGTTTGAACCTGTGTCC	AGGTGCTGAACCCAGTTTCTGAATTAAGAGAGCTAGC	1920
QY	1921	CGGCTAGCGAACCGGGATTCAC	CAAGTTTCCCCAGAGTTTGAGTAAGAA	1980
Db	1921	CGGCTAGCGAACCGGGATTCAC	CAAGTTTCCCCAGAGTTTGAGTAAGAA	1980
QY	1981	GTGCAAAAAGCGCATATGTAAT	ATGCAGAGTTTCACTTAGAACATATGCAATATTTTCCA	2040
Db	1981	GTGCAAAAAGCGCATATGTAAT	ATGCAGAGTTTCACTTAGAACATATGCAATATTTTCCA	2040
QY	2041	TCCTCTGAATTTACTATAGCCAA	AGCTATAGGAAATGTGGCAATGTCACTGAATTTCAAGTG	2100
Db	2041	TCCTCTGAATTTACTATAGCCAA	AGCTATAGGAAATGTGGCAATGTCACTGAATTTCAAGTG	2100

[illegible]

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RESULT 2      US-60-466-412-83506
; Sequence 83506, Application US/60466412
; GENERAL INFORMATION:
; APPLICANT: CARCILE, Michele
; APPLICANT: IAKUBOVA, Olga
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF

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1964 GCAGGCTCTGTAGAGAGTGAAGCAAGCCATGTGAATGCCAGGCTTCACTTAGACACA 2023
4523 GCAGGCTCTGTAGAGAGTGAAGCAAGCCATGTGAATGCCAGGCTTCACTTAGACACA 4582
2024 TATGCAAAATATTTCCATCCCTGAAATTTACTAGCCAAAGCTATGGGAAGTGGCAGGT 2083
4583 TATGCAAAATATTTCCATCCCTGAAATTTACTAGCCAAAGCTATGGGAAGTGGCAGGT 4642
2084 CACTGAATTTACAGGTGTAGTATGGAAAAGTGTGTGTGTGAATATATATATCA 2143
4643 CACTGAATTTACAGGTGTAGTATGGAAAAGTGTGTGTGTGAATATATATATCA 4702
2144 CACTGAATTTATTTCTTCACTTTCAGATGACAGTGTTCACCTCTCTGTCTTTCAGAC 2203
4703 CACTGAATTTATTTCTTCACTTTCAGATGACAGTGTTCACCTCTCTGTCTTTCAGAC 4762
2204 GTCTCTTATATTTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2263
4763 GTCTCTTATATTTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 4822
2264 ATTCTCCCTGAGGAGTGAAGCTGTAGATGATAGATAGAGAGTACCGCTTTGTGT 2323
4823 ATTCTCCCTGAGGAGTGAAGCTGTAGATGATAGATAGAGAGTACCGCTTTGTGT 4882
2324 TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2383
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2384 AGTGAATGAGGAGGAGGAGGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2443
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2444 CCATCAATATAGCAATATTTGGAGAGTGAAGCCAGAGCTGTTCACCTTCCATTCAGGCTC 2503
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2504 CCTATGCTTCTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2563
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2564 TTGGCAGATATATATAGGAGGAGGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2623
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2624 CAGTTTGTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2682
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2683 TCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2742
5243 TCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 5302
2743 CCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2802
5303 CCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 5362
2803 GGGAGATATTTAGAGAGGAGGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2862
5363 GGGAGATATTTAGAGAGGAGGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 5422
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5423 TCACAGAGGATATATATAGGAGGAGGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 5482
2923 TGGGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2982
5483 TGGGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 5542
2983 GAGGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 3042
5543 GAGGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 5602

QY 3043 TCG 3045
Db 5603 TCG 5605
RESULT 3
US-60-500-315-11863
; Sequence 11863, Application US/60500315
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele
; TITLE OF INVENTION: POLYMORPHISMS IN NUCLEIC ACID MOLECULES
; TITLE OF INVENTION: ENCODING HUMAN G-PROTEIN COUPLED RECEPTOR PROTEINS, METHODS
; FILE REFERENCE: C1001484
; CURRENT APPLICATION NUMBER: US/60/500,315
; CURRENT FILING DATE: 2003-09-05
; NUMBER OF SEQ. ID NOS: 69978
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 11863
; LENGTH: 14011
; TYPE: DNA
; ORGANISM: Homo sapiens
US-60-500-315-11863

Query Match 89.7%; Score 2731; DB 107; Length 14011;
Best Local Similarity 97.4%; Pred. No. 0;
Matches 2984; Conservative 5; Mismatches 45; Indels 29; Gaps 20;

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Db 723 ATCATCATATATATCCGTATTAAGCTGTGCTTTCTTTAGGTAACCTTAGAGCCCTGA 782
QY 61 AGAATAAGAGCTCATCTTTA--CAGAGCTTTGGTTTGCAGCACTTACTTAAGAAATA 118
Db 783 AGAATAAGAGCTCATCTTTAAGAGAGCTTTGGTTTGCAGCACTTACTTAAGAAATA 842
QY 119 TTGGTATCTGTATCTTTAAGGTAACATGAAGATTTGGCTAAGTAAGTAAGT 178
Db 843 TTGGTATCTGTATCTTTAAGGTAACATGAAGATTTGGCTAAGTAAGTAAGT 901
QY 179 AAAGCAATATCATCTGCATATATATATATATATATATATATATATATATATATAT 237
Db 902 AAAGCAATATCATCTGCATATATATATATATATATATATATATATATATATATAT 961
QY 238 AAGTTAAACATTAATCTATTTATGATTTGACATTTGAGTATGAGTATGAGTATG 297
Db 962 AAGTTAAACATTAATCTATTTATGATTTGACATTTGAGTATGAGTATGAGTATG 1020
QY 298 GAATTAATCTGATCTGTCTGCTCCCTCCTAGTATCATTAAGTGTGCTTGAAGCTT 357
Db 1021 ATA---CTTCAATCTTCTGCTCCCTCCTAGTATCATTAAGTGTGCTTGAAGCTT 1076
QY 358 TTAATTTTGAAGATTAATATGTTTATATATATATATATATATATATATATATAT 417
Db 1077 TTAATTTTGAAGATTAATATGTTTATATATATATATATATATATATATATATAT 1136
QY 418 GAATTAATCTGATTTTGAAGAACTTGAATTTCTACATCTATACATATTTGAAGCA 477
Db 1137 GAATTAATCTGATTTTGAAGAACTTGAATTTCTACATCTATACATATTTGAAGC 1195
QY 478 AATAACAAATGCTATACCTCAGAAATATTAATTCAGATTTTACAGATTTTAACTTCT 537
Db 1196 AATAACAAATGCTATACCTCAGAAATATTAATTCAGATTTTACAGATTTTAACTTCT 1255
QY 538 TGAATGAAGAAATTAATTTGTAGTATTAATCTATT--GATTCAGAGAGAGAGCA 596
Db 1256 TGAATGAAGAAATTAATTTGTAGTATTAATCTATTGAGATTCAGAGAGAGAGCA 1315
QY 597 GAATTTCACTAATATATATATATATATATATATATATATATATATATATATATAT 656
Db 1316 GAATTTCACTAATATATATATATATATATATATATATATATATATATATATATAT 1375
QY 657 GACACAAATTTCTTAATATATATATATATATATATATATATATATATATATATAT 716

D	1376	GACGCAATTCCTTAATTAATGTTCTTGAATGCAATATTTGCTTTAAATTTAAAGTTTC	1435
Q	717	CTTAATTTTAACTTTGGTTAAATAGTCTCAACTAAATTTCAAAGTTAAATTTAGATTAATTC	776
D	1436	CTTAATTTTAACTTTGGTTAAATAGTCTCAACTAAATTTCAAAGTTAAATTTAGATTAATTC	1495
Q	777	AGCCTTTAAATATTTTCCCATTTAAATTTTGAACCTCAACCTAAATTTTAACGTGA	836
D	1496	AG-CTTTAAATATTTTCCCATTTAAATTTTGG-CACTCAACTCTAATTTAACTGTGA	1553
Q	837	ATAATGTTCTGTAATTTGGAAGACATTTAGAAATGGAATAGATACCTTCACAAATCTT	896
D	1554	ATAATGTTCTGTAATTTGGAAGACATTTAGAAATGGAATAGATACCTTCACAAATCTT	1613
Q	897	AAAAAGCTTTCTAGAGTCTGTGAACAGCATTTACATGTATACTTATCTCTTTCTTGC	955
D	1614	AAAAAGCTTTCTAGAGTCTGTGAACAGCATTTACATGTATACTTATCTCTTTCTTTC	1673
Q	956	ATGCC---ATGATCATCACAAATCATGAGCTCATAGTGGTGCATGCTG-AATGATTTAGT	1010
D	1674	AATGCCATGATTCATCAACAATTGCAGGCTCATTTGTGTGCATGCTGAATTTGATG	1733
Q	1011	GGGACTGTGC---AGCTGAACATTAATAAAAAAACAACAACAAACCTTATCCAAACA	1066
D	1734	GGGAACTGTGCCACGACTGAACATTAATAAAAAAACAACAACCTTATCCAAACA	1793
Q	1067	CACGTCCCTGATTTGTAATGCAATGGCCCACTGATCTTTTGAATGCTTTGGTGAATG	1126
D	1794	CACGTCCCTGATTTGTAATGCAATGGCCCACTGATCTTTTGAATGCTTTGGTGAATG	1853
Q	1127	CTCTTTGTTGGGCTTGAGAAATTCAGAGCTATGAATTCAGAGCTCAGATTTGAACAC	1186
D	1854	CTCTTTGTTGGGCTTGAGAAATTCAGAGCTATGAATTCAGAGCTCAGATTTGAACAC	1913
Q	1187	AATTTAAGATTAATTTGCAATCTGTAAAGAACTGTCACTTTTACCAATGTCACATGCTT	1246
D	1914	AATTTAAGATTAATTTGCAATCTGTAAAGAACTGTCACTTTTACCAATGTCACATGCTT	1973
Q	1247	TTGAGATTGCACTCTCTTCACTCAGGATCAATCAGAGATGTAATGTAAGTAAGTTGTG	1306
D	1974	TTGAGATTGCACTCTCTTCACTCAGGATCAATCAGAGATGTAATGTAAGTAAGTTGTG	2033
Q	1307	TGTAATGTTAACTGTAGTGTCTTGAAGT-CAATTTCTTACCAATGCTCAAAATGTGATTA	1365
D	2034	TGTAATGTTAACTGTAGTGTCTTGAAGT-CAATTTCTTACCAATGCTCAAAATGTGATTA	2093
Q	1366	AATTTG-TTTTCTGTAAAGAAACAGCTTAGAAACAACCTTGTAAGTATCTTTA-TT	1423
D	2094	AATTTGTTTCTTGTTTAAAGAAACAGCTTAGAAACAACCTTGTAAGTATCTTTA-TT	2153
Q	1424	TCAGTGAATTTACATTTCCAAATGTAAATCATTTGGAAAAATGCAATCTAATTCGTTCT	1483
D	2154	TCAGTGAATTTACATTTCCAAATGTAAATCATTTGGAAAAATGCAATCTAATTCGTTCT	2213
Q	1484	CCAACAAGGTAAATTTAATGTCAGTCCCAAGTCAAGTTATGACAGCAACAACCAAC	1543
D	2214	CCAACAAGGTAAATTTAATGTCAGTCCCAAGTCAAGTTATGACAGCAACAACCAAC	2273
Q	1544	ACAAGTGAAGTGTAGGCTCAGCTTATTAATAATGCAATTCACATTGGAATCTGTGAT	1603
D	2274	ACAAGTGAAGTGTAGGCTCAGCTTATTAATAATGCAATTCACATTGGAATCTGTGAT	2333
Q	1604	GACGATTAATCTCAGGCTTTGCAAGGAAGCTAAACATTAATAGGCTGATATTAATAGT	1663
D	2334	GACGATTAATCTCAGGCTTTGCAAGGAAGCTAAACATTAATAGGCTGATATTAATAGT	2393
Q	1664	TCAGAGCAAAAGAGGCGCACTAAATTAATTTTAAAGAAATTTAGGAAGAGACAAAATC	1723
D	2394	TCAGAGCAAAAGAGGCGCACTAAATTAATTTTAAAGAAATTTAGGAAGAGACAAAATC	2453
Q	1724	AATATCACTTGTCTTTTAATTAACGTCTTCTCTTTTAAAGTGTGTGATTTCCCTCA	1783

Db	2454	AATACACACTGGCTTTTAATTAACGTGCTCCCTCTTCTTAAGAGTTGTGTATCTCTCA	2513
QY	1784	ATACTGCTTCATTTCTTCGGCATTAAGGTTTCCAGATGCGACTCTAATAACATTTGGCCGAA	1843
Db	2514	ATACTGTGCTTCATTTCTT-CGATTAAGGGTTTCCAGATGCGACTCTAATAACATTTGGCCGAA	2572
QY	1844	GGTGGCGCAATATAAACCTCATGTGCTTAAGAATCTGCCAGTGTCTGAACCCAGTTTCTGA	1903
Db	2573	GGTGGCGC-AATTAATAACCTCATGTGCTTAAGAATCTGCCAGTGTCTGAACCCAGTTTCTGA	2631
QY	1904	GATTTAAGAGGCGCTAGCCGGCTAGCCGAACCGGGATTTCCACCAAGTTTCCCCCAGAGTTT	1963
Db	2632	GATTTAAGAGGCGCTAGCCGGCTAGCCGAACCGGGATTTCCACCAAGTTTCCCCCAGAGTTT	2691
QY	1964	GCGGGCTCTGTGAAGAGTGCCAAAAGGCCATGTGAATATGCAAGGCTTCATTTGAACACA	2023
Db	2692	GCGGGCTCTGTGAAGAGTGCCAAAAGGCCATGTGAATATGCAAGGCTTCATTTGAACACA	2751
QY	2024	TATGCAAAATATTTCCATCCCTGATTTTACTAGCCACMAAGCATATGGAAATGGCACTGT	2083
Db	2752	TATGCAAAATATTTCCATCCCTGATTTTACTAGCCACMAAGCATATGGAAATGGCACTGT	2811
QY	2084	CACCTGAATTAACAAGTGTAGTATGTGATGGAATAAGTGTGTGTGTGTATGAATATATATCA	2143
Db	2812	CACCTGAATTAACAAGTGTAGTATGTGATGGAATAAGTGTGTGTGTGTATGAATATATATCA	2871
QY	2144	CACCTGAATTTGTTCTTCATTTCCAGATGAGATGTTTACTCTCCTTGTCTTTTGACAC	2203
Db	2872	CACCTGAATTTGTTCTTCATTTCCAGATGAGATGTTTACTCTCCTTGTCTTTTGACAC	2931
QY	2204	GTCCTTATTAATTTGTTGTTCTCTCCCGGTTCCCAAGTTTAAAAAAAAGTCACAGCGAAT	2263
Db	2932	GTCCTTATTAATTTGTTGTTCTCTCCCGGTTCCCAAGTTTAAAAAAAAGTCACAGCGAAT	2991
QY	2264	ATTTCCTCCCTAGAGGAGTAAGAGCTGGAATGTATGATGAATAACGAGATACGTTTGTGTGT	2333
Db	2992	ATTTCCTCCCTAGAGGAGTAAGAGCTGGAATGTATGATGAATAACGAGATACGTTTGTGTGT	3051
QY	2324	TGTTGTGCTGCTGTTGTTGTTTGTATTGGAACGGAAGTCTCGCTGTGTGCGCCAGGCTGG	2383
Db	3052	TGTTGTGCTGCTGTTGTTGTTTGTATTGGAACGGAAGTCTCGCTGTGTGCGCCAGGCTGG	3111
QY	2384	AGTGCATATGGCGGAGAGACGGAAGGATCTTTTAAAAACGAAGACACACTGGATCTTCTT	2443
Db	3112	AGTGCATATGGCGGAGAGACGGAAGGATCTTTTAAAAACGAAGACACACTGGATCTTCTT	3171
QY	2444	CCATCAATTAAGCAATAATTTGGAGACTGACCCGAGACTGTTCACCTTCCCATTTGAGGCTC	2503
Db	3172	CCATCAATTAAGCAATAATTTGGAGACTGACCCGAGACTGTTCACCTTCCCATTTGAGGCTC	3231
QY	2504	CCATATGCTTCCCTTTCTCATCTCTATTTGGCACCTTGGGATGCTGACACAGATTTAAATAT	2563
Db	3232	CCATATGCTTCCCTTTCTCATCTCTATTTGGCACCTTGGGATGCTGACACAGATTTAAATAT	3291
QY	2564	TTGGCAGATATATATGAGGCAAGGAGTGTGGAATTCCTCCCTCCCAAGTTTTCACCAACC	2623
Db	3292	TTGGCAGATATATATGAGGCAAGGAGTGTGGAATTCCTCCCTCCCAAGTTTTCACCAACC	3351
QY	2624	CAGTTTGTCTGGGTGGAGGCGAGATTTATTTGTTACACACTTGTGTGACCCGCA-GGA	2682
Db	3352	CAGTTTGTCTGGGTGGAGGCGAGATTTATTTGTTACACACTTGTGTGACCCGCAAGGGA	3411
QY	2683	TCTGGGTGTGTATAGTATGATTTGAGTGTCTGTGTGACAAATAAGAGACTGCAATTCGAAGA	2742
Db	3412	TCTGGGTGTGTATAGTATGATTTGAGTGTCTGTGTGACAAATAAGAGACTGCAATTCGAAGA	3471
QY	2743	CGCTGACCTAGAGGAGAGAGGCGGCGGGAACCCAGAGAAAGAGGCACTCTCGGGGTTG	2802
Db	3472	CGCTGACCTAGAGGAGAGAGGCGGCGGGAACCCAGAGAAAGAGGCACTCTCGGGGTTG	3531
QY	2803	GGGAAGATTAAGAGGAGGAGGGTTAGTATGGGAGGGAAGGAGCTGTGGCTTTGCAAGCGAC	2862
Db	3532	GGGAAGATTAAGAGGAGGAGGGTTAGTATGGGAGGGAAGGAGCTGTGGCTTTGCAAGCGAC	3591

[illegible]

```

RESULT 4
US-60-500-315-11364
; Sequence 11364, Application US/60500315
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michèle
; TITLE OF INVENTION: POLYMORPHISMS IN NUCLEIC ACID MOLECULES
; TITLE OF INVENTION: ENCODING HUMAN G-PROTEIN COUPLED RECEPTOR PROTEINS, METHODS
; TITLE OF INVENTION: OF DETECTION AND USES THEREOF
; FILE REFERENCE: C0001484
; CURRENT APPLICATION NUMBER: US/60/500,315
; CURRENT FILING DATE: 2003-09-05
; NUMBER OF SEQ ID NOS: 69978
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1364
; LENGTH: 13482
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-60-500-315-11364

```

Query Match	Similarity	99.7%	Score	2730.6	DB	107	Length	13482
Best Local	Similarity	97.4%	Pred	No. 0'				
Matches	2983	Conservative	6	Mismatches	45	Indels	29	Gaps
QY	1	ATCATCAATAATATCGTTATPAAGCCTTGCTTTCTTTAGGTTAACTTTAGAGCGCTTGA	60					
Db	2767	ATCATCAATAATATCGTTATPAAGCCTTGCTTTCTTTAGGTTAACTTTAGAGCGCTTGA	2828					
QY	61	AGAAATPAAGCGCATCTCTTTA--GAGGAGCTTGCTTGAGCAGTAATCTPAAGAATA	118					
Db	2827	AGAAATPAAGCGCATCTCTTTATGCAAGAGCTTGCTTGAGCAGTAATCTTTAGAAATA	2886					
QY	119	TTTGTAATCTGTATCTTTAAGAGTTAAACATAGAAGAAATGGCTAAGTGAATGAATG	178					
Db	2887	TTTGTAATCTGTATCTTTAAGAGTTAAACATAGAAGAAATGGCTAAGTGAATGAATG	2945					
QY	179	AAAGCAATATCATCTCGCATPAATCATTTATTAATPAACAAGTAATTAAGTTT-AA	237					
Db	2946	AAAGCAATATCATCTCGCATPAATCATTTATTAATPAACAAGTAATTAAGTTTAA	3003					
QY	238	AAAGTTAAACATAAATATCTATTATGCAATGAGCAATGAGYSAACCTATCTGCTGC	297					
Db	3006	AAAGTTAAACATAAATATCTATTATGCAATGAGCAATGAGYSAACCTATCTGCTGC	3066					
QY	298	GAATCTCTGCATATCTTGCTTGCTCCCTCCATATTCATTAATGAGCGCTTGAAAAAGTT	357					
Db	3065	ATA--CTTCAATCTCTTGCTTGCTCCCTCCATATTCATTAATGAGCGCTTGAAAAAGTT	3120					
QY	358	TTAAATGTPAAGAAATPAAAATGTTTGATATATTAATGATATTATTACTPAAGAAAAACTT	417					
Db	3121	TTAAATGTPAAGAAATPAAAATGTTTGATATATTAATGATATTATTACTPAAGAAAAACTT	3180					
QY	418	GAATTAATCTTGGAATTTTGAAAAAGCTTGATTAATCTCATCATATGCAATTAATGAAGCAAG	477					
Db	3181	GAATTAATCTTGGAATTTTGAAAAAGCTTGATTAATCTCATCATATGCAATTAATGAAGCAAG	3233					

QY	478	AATPACAAAGCTATACCTCAGGAAATTTAATCCAAATTTTACAGATTTTAACTTCT	537
Db	3240	AATPACAAAGCTATACCTCAGGAAATTTAATCCAAATTTTACAGATTTTAACTTCT	3239
QY	538	TGATGAGAAAAATTAATTTGTGCACTATTAAACTATT- GGAATCAACAGATGAAGCA	596
Db	3300	TGATGAGAAAAATTAATTTGTGCACTATTAAACTATTGGGATCCAAACAGATGAAGCA	3359
QY	597	GAATTCATCAACATATTTATGATTTATTTGGATTTCAATATTAACATGCTGTT	656
Db	3360	GAATTCATCAACATATTTATGATTTATTTGGATTTCAATATTAACATGCTGTT	3419
QY	657	GACACAAATCTTAATTAATGTTCTGTGATGACATATATTTGCTTAAATTTAAGTTTC	716
Db	3420	GACACAAATCTTAATTAATGTTCTGTGATGACATATATTTGCTTAAATTTAAGTTTC	3479
QY	717	CTTATATTTTACTTTGTTTATTAAGTCTCACTATAATTTCAAAAGTTTAAATTTAGTATTC	776
Db	3480	CTTATATTTTACTTTGTTTATTAAGTCTCACTATAATTTCAAAAGTTTAAATTTAGTATTC	3539
QY	777	AGCCTTTAAATATTTTCCCATATATATTTTGGACCTCAACTCATTTTAACTGTAA	836
Db	3540	AG-CTTTAAATATTTTCCCATATATATTTTGG- GACCTCACTCATTTTAACTGTAA	3597
QY	837	ATATAGTTCGTATTTGTGAAGACACTTTAGAACTGAAATAGATACCTTCACAAATCTT	896
Db	3598	ATATAGTTCGTATTTGTGAAGACACTTTAGAACTGAAATAGATACCTTCACAAATCTT	3657
QY	897	-AAAAGCTCTTCAGAGCTGTGTAACAGATTAACATGATACCTTATCTTCTTCTTTC	955
Db	3658	AAAAGACTCTTCAGAGCTGTGTAACAGATTAACATGATACCTTATCTTCTTCTTTC	3717
QY	956	ATGCC---ATGATCATCAACATGATAGGCTCATGTGTGGCATGCTG-AATGATTAGT	1010
Db	3718	AATGCCAATGATCATCAACATGAGGCTCATGTGTGGCATGCTGAATGATTAGT	3777
QY	1011	GGGACTGTGCC---AGCTGAACATATAAAAAAACAACAAACCTTATCCAAACA	1066
Db	3778	GGGAACTGTGCCAAGCACTGAACATATAAAAAAACAACAAACCTTATCCAAACA	3837
QY	1067	CACGTGCTGTATGTATGATCATATGGGCCCAACTGATCTCTTTTGATGCTTTGGTGAATG	1126
Db	3838	CACGTGCTGTATGTATGATCATATGGGCCCAASTGATCTCTTTTGATGCTTTGGTGAATG	3897
QY	1127	CTCTTTTGTTTGGGCTTGGAGATTCAGAGTATGAATTCAGAGCTCAAGTTTGAACAC	1186
Db	3898	CTCTTTTGTTTGGGCTTGGAGATTCAGAGTATGAATTCAGAGCTCAAGTTTGAACAC	3957
QY	1187	AATATTAAGATTAATGCAATCTGTAGAGAACTCTTATGTTATCCAGTGCACATGCTT	1246
Db	3958	AATATTAAGATTAATGCAATCTGTAGAGAACTCTTATGTTATCCAGTGCACATGCTT	4017
QY	1247	TTGAGATTCATTCCTTCACTCAGGACATGCAATCAGATGATTAAGTGAATGTTGTG	1306
Db	4018	TTGAGATTCATTCCTTCACTCAGGACATGCAATCAGATGATTAAGTGAATGTTGTG	4077
QY	1307	TGATATGTTTACGTAGTGTGTTAGAGT-CAATCTTTTACCAATGCTCAAAATGTGATTA	1365
Db	4078	TGATATGTTTACGTAGTGTGTTAGAGTCCATCTTTTACCAATGCTCAAAATGTGATTA	4137
QY	1366	AATTTG-TTTTCTGTTAAGGAAACAGCTTAGAACAAACCTTGTAAGTATCTTTA-TT	1423
Db	4138	AATTTGTTTCTGTTAAGGAAACAGCTTAGAACAAACCTTGTAAGTATCTTTA-TT	4197
QY	1424	TCAGTGAATTTAACCTTTCCAAAGTTTAAATCATTTGGAAAAATGAATATATGCTTCT	1483
Db	4198	TCAGTGAATTTAACCTTTCCAAATCTTAATCATTTGGAAAAATGAATATATGCTTCT	4257
QY	1484	CCAACAAAGGTAATTTATGTCAAGTTCCAAAGTTCAAGTTATGACACACAAACCAAC	1543
Db	4258	CCAACAAAGGTAATTTATGTCAAGTTCCAAAGTTCAAGTTATGACACACAAACCAAC	4317
QY	1544	ACAGGTGAAGCTTTAGCTTATTTAATAAGGATTCCTCCAGTTAAGAACTGTGAT	1603

QY 1904 GATTAGAGAGCTAGCCGGCTAGCGAACCGGGATTCCACCAAGTTTCCCCAGAGTTT 1963
DB 300 GATTAGAGAGAGCTAGCCGGCTAGCGAACCGGGATTCCACCAAGTTTCCCCAGAGTTT 359
QY 1964 GCAGGCTCTGGTAAAGATGCAAAAGCCATGTGAAATGCCAGGCTTCACTTAAGACACA 2023
DB 360 GCAGGCTCTGGTAAAGATGCAAAAGCCATGTGAAATGCCAGGCTTCACTTAAGACACA 419
QY 2024 TATGCAAAATTTTCCATCCCTGAAATTTACTAGCCACAAAGCTATGGGAATGGCAGTGT 2083
DB 420 TATGCAAAATTTTCCATCCCTGAAATTTACTAGCCACAAAGCTATGGGAATGGCAGTGT 479
QY 2084 CACTGAATTTCAAGTATAGTATGATGAAAGATGTGTGTGTATGATATATATATCA 2143
DB 480 CACTGAATTTCAAGTATAGTATGATGAAAGATGTGTGTGTATGATATATATATCA 539
QY 2144 CACTGAGTTTGTCTTCAATTCAGATGCAAGTTGTTCCTCTCTCTTGTCTTGAACAC 2203
DB 540 CACTGAGTTTGTCTTCAATTCAGATGCAAGTTGTTCCTCTCTCTTGTCTTGAACAC 599
QY 2204 GTCCTTTAATTTGCTCTCCCGGTCCCGCAACGTTAAAAAAGTACAGAGCAAT 2263
DB 600 GTCCTTTAATTTGCTCTCCCGGTCCCGCAACGTTAAAAAAGTACAGAGCAAT 659
QY 2264 ATTCTCCCTGAGGAGTAAAGCTGACTGTATGATATACGAGAGTACCGTTTGTGTGT 2323
DB 660 ATTCTCCCTGAGGAGTAAAGCTGACTGTATGATATACGAGAGTACCGTTTGTGTGT 719
QY 2324 TGTGTCTGCTGTGTCTGTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2383
DB 720 TGTGTCTGCTGTGTCTGTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 779
QY 2384 AGTGAATGCGCGGAGACGAGAGTACTTTTAAAAAGCAAGACACACTCGCTCTCTT 2443
DB 780 AGTGAATGCGCGGAGACGAGAGTACTTTTAAAAAGCAAGACACACTCGCTCTCTT 839
QY 2444 CCATCAATTTAGCAATATTTGGGAGACTACCCAGAGCTGTACCTTCCATTGAGGCTC 2503
DB 840 CCATCAATTTAGCAATATTTGGGAGACTACCCAGAGCTGTACCTTCCATTGAGGCTC 899
QY 2504 CCTATGCTCTCTTCTCTATCTCTATTTGCCACTGTGGAGTGTGACACAGATTAAAGAT 2563
DB 900 CCTATGCTCTCTTCTCTATCTCTATTTGCCACTGTGGAGTGTGACACAGATTAAAGAT 959
QY 2564 TTGGCAGATTAATATGAGGCAAGAGTATGGAATTCCTTCCCAAGTTTTCACACC 2623
DB 960 TTGGCAGATTAATATGAGGCAAGAGTATGGAATTCCTTCCCAAGTTTTCACACC 1019
QY 2624 CAGTTTCTGCTGCTGAGAGCGAGATTTATTTGTTACAACTGTGCTGACCGGCA- GGA 2682
DB 1020 CAGTTTCTGCTGCTGAGAGCGAGATTTATTTGTTACAACTGTGCTGACCGGCAAGGA 1079
QY 2683 TCTGTGTGTGTATGAGTCTGTAGTCTCTGTGACAAAAAGAGACTCGAATGCAAGA 2742
DB 1080 TCTGTGTGTGTATGAGTCTGTAGTCTCTGTGACAAAAAGAGACTCGAATGCAAGA 1139
QY 2743 CGCTAGCTAGAGGAGAGAGAGGCGGAGACCCAGAGAAAGAGCACTCTCGGCGGTG 2802
DB 1140 CGCTAGCTAGAGGAGAGAGGCGGAGACCCAGAGAAAGAGCACTCTCGGCGGTG 1199
QY 2803 GGGAGATTTAGAGAGGAGGCTTAGAGTGGAGGAGAGAGCTGTGCTGAGAGCGAC 2862
DB 1200 GGGAGATTTAGAGAGGAGGCTTAGAGTGGAGGAGAGAGCTGTGCTGAGAGCGAC 1259
QY 2863 TACAGAGAGGATTAATAAGGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2922
DB 1260 TACAGAGAGGATTAATAAGGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1319
QY 2923 TGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2982
DB 1320 TGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1379

QY 2983 GAGGAGAGAGAGATTAAGGAGAGAGAGGTCACAGAGTACCCGTGAGAGATGGGGCTTC 3042
DB 1380 GAGGAGAGAGAGATTAAGGAGAGAGAGGTCACAGAGTACCCGTGAGAGATGGGGCTTC 1439
QY 3043 TCG 3045
DB 1440 TCG 1442

RESULT 6
PCT-US00-40519-1
; Sequence 1, Application PC/TUS0040519
; GENERAL INFORMATION:
; APPLICANT: Denten, R. Rex
; APPLICANT: Nandabalan, Krishnan
; APPLICANT: Kleim, Stephanie
; APPLICANT: Stephens, U. Claiborne
; TITLE OF INVENTION: DRUG TARGET ISOGENES: POLYMORPHISMS IN THE
; FILE REFERENCE: 5-HYDROXYTRYPTAMINE RECEPTOR 1A GENE
; CURRENT FILING DATE: 2000-08-01
; PRIOR FILING DATE: 1999-08-06
; NUMBER OF SEQ ID NOS: 53
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 1
; LENGTH: 1204
; TYPE: DNA
; ORGANISM: Homo sapiens
PCT-US00-40519-1

Query Match 24.6%; Score 747.8; DB 1; Length 1204;
Best Local Similarity 98.9%; Pired. No. 7.9e-120;
Matches 774; Conservative 0; Mismatches 7; Indels 2; Gaps 2;

QY 2264 ATTCTCCCTGAGGAGTAAAGCTGACTGTATGATATACGAGAGTACCGTTTGTGTGT 2323
DB 1 ATTCTCCCTGAGGAGTAAAGCTGACTGTATGATATACGAGAGTACCGTTTGTGTGT 60
QY 2324 TGTGTCTGCTGTGTCTGTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2383
DB 61 TGTGTCTGCTGTGTCTGTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 120
QY 2384 AGTGAATGCGCGGAGACGAGAGTACTTTTAAAAAGCAAGACACACTCGCTCTCTT 2443
DB 121 AGTGAATGCGCGGAGACGAGAGTACTTTTAAAAAGCAAGACACACTCGCTCTCTT 180
QY 2444 CCATCAATTTAGCAATATTTGGGAGACTGACCCAGAGCTGTACCTTCCATTGAGGCTC 2503
DB 181 CCATCAATTTAGCAATATTTGGGAGACTGACCCAGAGCTGTACCTTCCATTGAGGCTC 240
QY 2504 CCTATGCTCTCTTCTCTATCTCTATTTGCCACTGTGGAGTGTGACACAGATTAAAGAT 2563
DB 241 CCTATGCTCTCTTCTCTATCTCTATTTGCCACTGTGGAGTGTGACACAGATTAAAGAT 300
QY 2564 TTGGCAGATTAATATGAGGCAAGAGTATGGAATTCCTTCCCAAGTTTTCACACC 2623
DB 301 TTGGCAGATTAATATGAGGCAAGAGTATGGAATTCCTTCCCAAGTTTTCACACC 360
QY 2624 CAGTTTCTGCTGCTGAGAGCGAGATTTATTTGTTACAACTGTGCTGACCGGCA- GGA 2682
DB 361 CAGTTTCTGCTGCTGAGAGCGAGATTTATTTGTTACAACTGTGCTGACCGGCAAGGA 420
QY 2683 TCTGTGTGTGTATGAGTCTGTAGTCTCTGTGACAAAAAGAGACTCGAATGCAAGA 2742
DB 421 TCTGTGTGTGTATGAGTCTGTAGTCTCTGTGACAAAAAGAGACTCGAATGCAAGA 480
QY 2743 CGCTAGCTAGAGGAGAGAGGCGGAGACCCAGAGAAAGAGCACTCTCGGCGGTG 2802
DB 481 CGCTAGCTAGAGGAGAGAGGCGGAGACCCAGAGAAAGAGCACTCTCGGCGGTG 540
QY 2803 GGGAGATTTAGAGAGGAGGCTTAGAGTGGAGGAGAGAGAGCTGTGCTGAGAGCGAC 2862

Db 541 GGGAAATATTAGAGGGGGGGGTTAGAGTGGAGGGAAGAG-CTCGCTTTGAAAGCAGC 599
QY 2863 TCACAGAGGATTAATTAAGAGAGTGAAGAGAGAGAGAGTGAAGAGAGAGAG 2922
Db 600 TCACAGAGGATTAATTAAGAGAGTGAAGAGAGAGAGAGTGAAGAGAGAGAG 659
QY 2923 TGGGGAAGAGGGGAGCGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2982
Db 660 TGGGGAAGAGGGGAGCGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 719
QY 2983 GAGGGAAGAGGAATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 3042
Db 720 GAGGGAAGAGGAATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 779
QY 3043 TCG 3045
Db 780 TCG 782

RESULT 7

US-10-049-407-1
; Sequence 1, Application US/10049407
; GENERAL INFORMATION:
; APPLICANT: Denton, R. Rex
; APPLICANT: Klem, Stefanie
; APPLICANT: Mandabalan, Krishnan
; APPLICANT: Stephens, J. Claiborne
; TITLE OF INVENTION: DRUG TARGET ISOGENES: POLYMORPHISMS IN THE
; FILE REFERENCE: MMH-0006US HTR1A
; CURRENT APPLICATION NUMBER: US/10/049,407
; PRIOR FILING DATE: 2002-02-06
; PRIOR APPLICATION NUMBER: PCT/US00/40519
; PRIOR FILING DATE: 2000-08-06
; PRIOR APPLICATION NUMBER: 60/147,711
; PRIOR FILING DATE: 1999-08-06
; NUMBER OF SEQ ID NOS: 53
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 1204
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-049-407-1

Query Match 24.6%; Score 747.8; DB 43; Length 1204;
Best Local Similarity 98.9%; Pred. No. 7,9e-120;
Matches 774; Conservative 0; Mismatches 7; Indels 2; Gaps 2;

QY 2264 ATTCTCCTGAGGAGTAAGGCTGAGCTGTAGATGATAACGAGGTACCGTTTGTGT 2323
Db 1 ATTCTCCTGAGGAGTAAGGCTGAGCTGTAGATGATAACGAGGTACCGTTTGTGT 60
QY 2324 TGTGTGCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2383
Db 61 TGTGTGCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 120
QY 2384 AGTGCATGCGCGAGAGACGAGGTAGCTTTTAAAAAGAGACACACTCGGTCTTCT 2443
Db 121 AGTGCATGCGCGAGAGACGAGGTAGCTTTTAAAAAGAGACACACTCGGTCTTCT 180
QY 2444 CCATCAATTAGCAATTAATTTGAGAGACTGACCCAGAGCTGTTCACCTTCCATTCA 2503
Db 181 CCATCAATTAGCAATTAATTTGAGAGACTGACCCAGAGCTGTTCACCTTCCATTCA 240
QY 2504 CCAATGCTTCTTTTCTCATCTCTTAATGCGACTCTGGAGTGTGAACGATTAAAGAT 2563
Db 241 CCAATGCTTCTTTTCTCATCTCTTAATGCGACTCTGGAGTGTGAACGATTAAAGAT 300
QY 2564 TTGGGAGATTAATTAAGAGAGAGAGTGAATTCCTCCCAAGTTTTCACACC 2623
Db 301 TTGGGAGATTAATTAAGAGAGAGAGTGAATTCCTCCCAAGTTTTCACACC 360

QY 2624 CAGTTTGTCTGCTGTGAGGCGAGATTATTGTGTACACCTTGCTGACCCGCA-GGA 2682
Db 361 CAGTTTGTCTGCTGTGAGGCGAGATTATTGTGTACACCTTGCTGACCCGCA-GGA 420
QY 2683 TCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2742
Db 421 CTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 480
QY 2743 CGTTGACTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2802
Db 481 CGTTGACTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540
QY 2803 GGAAGATTATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2862
Db 541 GGAAGATTATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 599
QY 2863 TCACAGAGGATTAATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2922
Db 600 TCACAGAGGATTAATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 659
QY 2923 TGGGGAAGAGGGGAGCGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2982
Db 660 TGGGGAAGAGGGGAGCGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 719
QY 2983 GAGGGAAGAGGAATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 3042
Db 720 GAGGGAAGAGGAATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 779
QY 3043 TCG 3045
Db 780 TCG 782

RESULT 8

PCT-US00-40519-3
; Sequence 3, Application PC/TUS0040519
; GENERAL INFORMATION:
; APPLICANT: Denton, R. Rex
; APPLICANT: Mandabalan, Krishnan
; APPLICANT: Klem, Stefanie
; APPLICANT: Stephens, J. Claiborne
; TITLE OF INVENTION: 5-HYDROXYTRYPTAMINE RECEPTOR 1A GENE
; FILE REFERENCE: MMH-0006PCT HTR1A
; CURRENT APPLICATION NUMBER: PCT/US00/40519
; PRIOR FILING DATE: 2000-08-01
; PRIOR APPLICATION NUMBER: 60/147,711
; PRIOR FILING DATE: 1999-08-06
; NUMBER OF SEQ ID NOS: 53
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 2722
; TYPE: DNA
; ORGANISM: Homo sapiens
PCT-US00-40519-3

Query Match 24.6%; Score 747.8; DB 1; Length 2722;
Best Local Similarity 98.9%; Pred. No. 9,7e-120;
Matches 774; Conservative 0; Mismatches 7; Indels 2; Gaps 2;

QY 2264 ATTCTCCTGAGGAGTAAGGCTGAGCTGTAGATGATAACGAGGTACCGTTTGTGT 2323
Db 1 ATTCTCCTGAGGAGTAAGGCTGAGCTGTAGATGATAACGAGGTACCGTTTGTGT 60
QY 2324 TGTGTGCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2383
Db 61 TGTGTGCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 120
QY 2384 AGTGCATGCGCGAGAGACGAGGTAGCTTTTAAAAAGAGACACACTCGGTCTTCT 2443
Db 121 AGTGCATGCGCGAGAGACGAGGTAGCTTTTAAAAAGAGACACACTCGGTCTTCT 180
QY 2444 CCATCAATTAGCAATTAATTTGAGAGACTGACCCAGAGCTGTTCACCTTCCATTCA 2503


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Db      181  CCATCAATTAATGAGTGGAGACTGACCAAGAGCTTCACTTCCCATCAGGCTC 240
Qy      2504  CCTAGCTCTCTTCTCATCTCCATTTGCACTCTGGAGTGCAGACCAATTAAT 2563
Db      241  CCTAGCTCTCTTCTCATCTCCATTTGCACTCTGGAGTGCAGACCAATTAAT 300
Qy      2564  TTGGCAGTAATATGAGGCAAGAGTAGTGAATTTCCCTCCCAAGTTTTCACACC 2623
Db      301  TTGGCAGTAATATGAGCAGGAGTAGTGAATTTCCCTCCCAAGTTTTCACACC 360
Qy      2624  CAGTTTCTCTGGTGGAGGCGGAGTTATTTTTCACACTTGTCTGACCGCA  GGA 2682
Db      361  CAGTTTCTCTGGTGGAGGCGGAGTTATTTTTCACACTTGTCTGACCGCA  GGA 420
Qy      2683  TCTGTGTGTGTAGTGTCTGAGTCTCTGTTCACAAAAGAGACTGCAATGCAAGA 2742
Db      421  CTTGTGTGTGTGTAGTGTCTGAGTCTCTGTTCACAAAAGAGACTGCAATGCAAGA 480
Qy      2743  CGCTGAGCTTAGAGGAGAGAGAGGCGGAGCCCAAGAGAAAGGCACTCTCGGGGTTG 2802
Db      481  CGCTGAGCTTAGAGGAGAGAGAGGCGGAGCCCAAGAGAAAGGCACTCTCGGGGTTG 540
Qy      2803  GGGAGATTTTAGAGGAGGAGGTTAGAGTGGAGGAAAGAGCCTGCTTTCAGAGGAC 2862
Db      541  GGGAGATTTTAGAGGAGGAGGTTAGAGTGGAGGAAAGAGCCTGCTTTCAGAGGAC 599
Qy      2863  TCACAGAGGATTAATTAAGGAGAGTGAAGAGAGAGGAGACTGAAGGGAAGGAGAG 2922
Db      600  TCACAGAGGATTAATTAAGGAGAGTGAAGAGAGAGGAGACTGAAGGGAAGGAGAG 659
Qy      2923  TGGGAGAGAGGAGGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2982
Db      660  TGGGAGAGAGGAGGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 719
Qy      2983  GAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 3042
Db      720  GAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 779
Qy      3043  TCG 3045
Db      780  TCG 782

```

```

RESULT 9
US-10-049-407-3
; Sequence 3, Application US/10049407
; GENERAL INFORMATION:
; APPLICANT: Denton, R. Rex
; APPLICANT: Kilem, Stefanie
; APPLICANT: Nandabalan, Krishnan
; APPLICANT: Stephens, J. Claiborne
; TITLE OF INVENTION: DRUG TARGET ISOGENES: POLYMORPHISMS IN THE
; TITLE OF INVENTION: 5-HYDROXYTRYPTAMINE RECEPTOR 1A GENE
; FILE REFERENCE: MMH-000605 HTR1A
; CURRENT APPLICATION NUMBER: US/10/049,407
; PRIOR FILING DATE: 2002-02-06
; PRIOR APPLICATION NUMBER: PCT/US00/40519
; PRIOR FILING DATE: 2000-08-06
; PRIOR APPLICATION NUMBER: 60/147,711
; NUMBER OF SEQ ID NOS: 53
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 2722
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-049-407-3

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Query Match      24.6%; Score 747.8; DB 43; Length 2722;
Best Local Similarity 98.9%; Pred. No. 9.7e-120;
Matches 774; Conservative 0; Mismatches 7; Indels 2; Gaps 2;

```

```

Qy      2264  ATTCTCCCTGAGGAGATGAAGCTGAGCTGTAGATGATTAACGAGAGTACCGTTTGTGT 2323
Db      1  ATTCTCCCTGAGGAGATGAAGCTGAGCTGTAGATGATTAACGAGAGTACCGTTTGTGT 60
Qy      2324  TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2383
Db      61  TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 120
Qy      2384  AGTGCATGAGCGGAGAGAGAGAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2443
Db      121  AGTGCATGAGCGGAGAGAGAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 180
Qy      2444  CCATCAATTAATGAGAGAGAGAGAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2503
Db      181  CCATCAATTAATGAGAGAGAGAGAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 240
Qy      2504  CCTAGCTCTCTTCTCATCTCCATTTGCACTCTGAGAGTGTGTGTGTGTGTGTGTGT 2563
Db      241  CCTAGCTCTCTTCTCATCTCCATTTGCACTCTGAGAGTGTGTGTGTGTGTGTGTGT 300
Qy      2564  TTGGCAGTAATATGAGGCAAGAGTAGTGAATTTCCCTCCCAAGTTTTCACACC 2623
Db      301  TTGGCAGTAATATGAGCAGGAGTAGTGAATTTCCCTCCCAAGTTTTCACACC 360
Qy      2624  CAGTTTCTCTGGTGGAGGCGGAGTTATTTTTCACACTTGTCTGACCGCA  GGA 2682
Db      361  CAGTTTCTCTGGTGGAGGCGGAGTTATTTTTCACACTTGTCTGACCGCA  GGA 420
Qy      2683  TCTGTGTGTGTAGTGTCTGAGTCTCTGTTCACAAAAGAGACTGCAATGCAAGA 2742
Db      421  CTTGTGTGTGTAGTGTCTGAGTCTCTGTTCACAAAAGAGACTGCAATGCAAGA 480
Qy      2743  CGCTGAGCTTAGAGGAGAGAGGCGGAGCCCAAGAGAAAGGCACTCTCGGGGTTG 2802
Db      481  CGCTGAGCTTAGAGGAGAGAGGCGGAGCCCAAGAGAAAGGCACTCTCGGGGTTG 540
Qy      2803  GGGAGATTTTAGAGGAGGAGGTTAGAGTGGAGGAAAGAGAGCTGTGCTTTCAGAGCAG 2862
Db      541  GGGAGATTTTAGAGGAGGAGGTTAGAGTGGAGGAAAGAGAGCTGTGCTTTCAGAGCAG 599
Qy      2863  TCACAGAGGATTAATTAAGGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2922
Db      600  TCACAGAGGATTAATTAAGGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 659
Qy      2923  TGGGAGAGAGGAGGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2982
Db      660  TGGGAGAGAGGAGGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 719
Qy      2983  GAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 3042
Db      720  GAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 779
Qy      3043  TCG 3045
Db      780  TCG 782

```

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RESULT 10
US-09-541-946-2477
; Sequence 2477, Application US/09541946
; GENERAL INFORMATION:
; APPLICANT: Lander, Eric S.
; APPLICANT: Cargill, Michele
; APPLICANT: Altmueller, David M.
; APPLICANT: Ireland, James S.
; APPLICANT: Sklar, Pamela
; APPLICANT: Patil, Nila
; APPLICANT: Lipschutz, Robert J.
; APPLICANT: Daley, George O.
; TITLE OF INVENTION: CHARACTERIZATION OF SINGLE NUCLEOTIDE
; TITLE OF INVENTION: POLYMORPHISMS IN CODING REGIONS OF HUMAN GENES
; FILE REFERENCE: 2825.1017-003
; CURRENT APPLICATION NUMBER: US/09/541,946

```


QY 2988 AAGAGGAATATAGGAGAGAGAGGCTCACAGAGTGAACCTGAGAGATGGGGCTTCTCG 3045
DB 720 AAGAGGAATATAGGAGAGAGAGGCTCACAGAGTGAACCTGAGAGATGGGGCTTCTCG 777

RESULT 12
US-09-541-946-2479
; Sequence 2479, Application US/09541946
; GENERAL INFORMATION:
; APPLICANT: Lander, Eric S.
; APPLICANT: Cargill, Michele
; APPLICANT: Altschuler, David M.
; APPLICANT: Ireland, James S.
; APPLICANT: Sklar, Pamela
; APPLICANT: Patil, Mita
; APPLICANT: Lipshutz, Robert J.
; APPLICANT: Daley, George O.
; TITLE OF INVENTION: CHARACTERIZATION OF SINGLE NUCLEOTIDE
; FILE REFERENCE: 2825.1017-003
; CURRENT APPLICATION NUMBER: US/09/541,946
; CURRENT FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: US 60/127,248
; PRIOR FILING DATE: 1999-03-31
; NUMBER OF SEQ ID NOS: 2889
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2479
; LENGTH: 839
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-541-946-2479

Query Match 24.4%; Score 742.4; DB 23; Length 839;
Best Local Similarity 98.7%; Pred. No. 6.3e-119;
Matches 768; Conservative 1; Mismatches 7; Indels 2; Gaps 2;

QY 2269 CCCTGAGGAGATAGAGCTGAGCTGTAGATGATACGAGAGTACCGTTTGTGTTGTTG 2328
DB 1 CCCTGAGGAGATAGAGCTGAGCTGTAGATGATACGAGAGTACCGTTTGTGTTGTTG 60
QY 2329 TCGTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 2388
DB 61 TCGTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 120
QY 2389 AATGCGCGAGAGAGAGAGTGTGTTTAAACAGAGACACACTGCTTCTTCCATC 2448
DB 121 AATGCGCGAGAGAGAGAGTGTGTTTAAACAGAGACACACTGCTTCTTCCATC 180
QY 2449 AATTAGCAATATATGAGAGCTGACCCAGAGCTGTTACCTTCCATTCAGGCTCCAT 2508
DB 181 AATTAGCAATATATGAGAGCTGACCCAGAGCTGTTACCTTCCATTCAGGCTCCAT 240
QY 2509 GCTTCTCTTTCATCTCCATTCGATGCACTCTGAGAGCTGACACGATTTAAATTTGGC 2568
DB 241 GCTTCTCTTTCATCTCCATTCGATGCACTCTGAGAGCTGACACGATTTAAATTTGGC 300
QY 2569 AGATTAATATGAGAGAGAGTGTGAAATTCCTCCCTCCCAAGTTTTCACCCAGTT 2628
DB 301 AGATTAATATGAGAGAGAGTGTGAAATTCCTCCCTCCCAAGTTTTCACCCAGTT 360
QY 2629 TTGCTGGGTGAGAGGCGAGTTTATTTGTTACAACTTGGTCTGACCGGCA-GGATCTGG 2687
DB 361 TTGCTGGGTGAGAGGCGAGTTTATTTGTTACAACTTGGTCTGACCGGCAAGGAGCTGG 420
QY 2688 TGTGTGTAAGTGTGAGTCTGTGAGCTCTGTGACAAAGAGAGCTGATCAAGAGAGCTG 2747
DB 421 TGTGTGTAAGTGTGAGTCTGTGAGCTCTGTGACAAAGAGAGCTGATCAAGAGAGCTG 480
QY 2748 AGCTAAGAGAGAGAGAGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2807
DB 481 AGCTAAGAGAGAGAGAGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540

QY 2808 GTATTAGAGAGGAGAGGTTTAAAGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2867
DB 541 GTATTAGAGAGGAGAGGTTTAAAGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 599
QY 2868 GAGGATTAATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2927
DB 600 GAGGATTAATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 659
QY 2928 AAGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2987
DB 660 AAGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 719
QY 2988 AAGAGGAATATAGGAGAGAGAGGCTCACAGAGTGAACCTGAGAGATGGGGCTTCTCG 3045
DB 720 AAGAGGAATATAGGAGAGAGAGGCTCACAGAGTGAACCTGAGAGATGGGGCTTCTCG 777

RESULT 13
US-09-634-306B-196186/C
; Sequence 196186, Application US/09634306B
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/09/634,306B
; CURRENT FILING DATE: 2002-02-21
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 196186
; LENGTH: 559
; TYPE: DNA
; ORGANISM: Human
US-09-634-306B-196186

Query Match 14.1%; Score 428.2; DB 26; Length 559;
Best Local Similarity 92.2%; Pred. No. 2.7e-64;
Matches 517; Conservative 2; Mismatches 30; Indels 12; Gaps 6;

QY 559 ATTCTAATCAATATATATGATTTATTTGTTGTTTAAATTTAAATTTAAATTTAAATTT 658
DB 559 ATTCTAATCAATATATATGATTTATTTGTTGTTTAAATTTAAATTTAAATTTAAATTT 500
QY 659 CACAATCTTAATATATGTTCTTGATGATGATATATTTGCTTCTTAATTTAAATTTAAATTT 718
DB 499 CACAATCTTAATATATGTTCTTGATGATGATATATTTGCTTCTTAATTTAAATTTAAATTT 440
QY 719 TTATTTTACTTGTGTTTATAGTCTCACTATATATTTGAAAGTTTAAATTTAAATTTAAATTT 778
DB 439 TTATTTTACTTGTGTTTATAGTCTCACTATATATTTGAAAGTTTAAATTTAAATTTAAATTT 380
QY 779 CTTTAAATATTTTCCATTAATATATTTTGTGAGCTCTAATCTATTTAACTGTAAT 838
DB 379 -CTTTAAATATTTTCCATTAATATATTTTGTGAGCTCTAATCTATTTAACTGTAAT 322
QY 839 ATAAGTCTGTAATTTGTGAGAGAGCTTTAGAAAGTGAATATGATACCTTCACAAATCTT-A 897
DB 321 AAGTTCGTATTTGTGAGAGAGCTTTAGAAAGTGAATATGATACCTTCACAAATCTTAA 262

QY 898 AAGACTTCTTCAAGAGTCTGTAACAGCATTCACATGATATCTCTTTCTTGCAAT 957
DB 261 AAGACTTCTTCAAGAGTCTGTAACAGCATTCACATGATATCTCTTTCTTGCA 202
QY 958 GCC---ATGATCATCAACATGAGTCTGATGCTGATGCTG---AATGATGAGTGG 1012
DB 201 TGCCATGATATCATCAAAATGCGAGCTCATTTGGTGGCATGCTGTAATGATGAGTGG 142
QY 1013 GACTGTGCC---AGCTGACTATATATAAAAAAAAAAACAACAAACCTTATCCAAACACA 1068
DB 141 GAACGTGCCCCAGCATGTAACATATATAAAAAAAAAAACAACAAACCTTATCCAAACACA 82
QY 1069 CTGTCCCTGATTTGTAATGATGCTGCGCCCACTGATCTTTTGTATGCTTGGTATGCT 1128
DB 81 CTGTCCCTGATTTGTAATGATGCTGCGCCCACTGATCTTTTGTATGCTTGGTATGCT 22
QY 1129 CTTTGTGTTGGGCTTGAGAA 1149
DB 21 CTTTGTGTTGGGCTTGAGAA 1

RESULT 14
US-09-634-306B-196187/c
; Sequence 196187, Application US/09634306B
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/09/634, 306B
; PRIOR FILING DATE: 2002-02-21
; PRIOR APPLICATION NUMBER: US 60/218, 006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198, 676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193, 483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185, 218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167, 363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156, 358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146, 002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 196187
; LENGTH: 559
; TYPE: DNA
; ORGANISM: Human
US-09-634-306B-196187

Query Match 14.1%; Score 428.2; DB 26; Length 559;
Best Local Similarity 92.2%; Pred. No. 2.7e-64;
Matches 517; Conservative 2; Mismatches 30; Indels 12; Gaps 6;
QY 599 ATTCTAACAATATTTATGATTTATTTGATTTACATATTTACATGTTGTTGA 658
DB 559 ATTCTAACAATATTTATGATTTATTTGATTTACATATTTACATGTTGTTGA 500
QY 659 CACAAATTTTAAATATGTTCTTGATATGCAATATTTGCTTTAAATTTTAACTTCT 718
DB 499 CACAAATTTTAAATATGTTCTTGATATGCAATATTTGCTTTAAATTTTAACTTCT 440
QY 719 TTAATTTACTTTGTTATAGTCTCAACTATATTTCAAGTTTAAATTTTAACTTCT 778
DB 439 TTAATTTACTTTGTTATAGTCTCAACTATATTTCAAGTTTAAATTTTAACTTCT 380
QY 779 CCTTTTAAATTTTCCCATATATTTTGTGACCTCTAATCTATATTTAACTGTAAT 838
DB 379 -CTTTTAAATTTTCCCATATATTTTGTG-GACCTCTAATCTATATTTAACTGTAAT 322

QY 839 ATAGTCTGATTTTGTGAAGAGACTTTAGAAAGTGAATAGATACCTTCAAAATCTT 897
DB 321 ACAGTCTGATTTTGTGAAGAGACTTTAGAAAGTGAATAGATACCTTCAAAATCTT 262
QY 898 AAGACTTCTTCAAGAGTCTGTAACAGCATTCACATGATATCTCTTTCTTGCAAT 957
DB 261 AAGACTTCTTCAAGAGTCTGTAACAGCATTCACATGATATCTCTTTCTTGCA 202
QY 958 GCC---ATGATCATCAACATGAGTCTGATGCTGATGCTG---AATGATGAGTGG 1012
DB 201 TGCCATGATATCATCAAAATGCGAGCTCATTTGGTGGCATGCTGTAATGATGAGTGG 142
QY 1013 GACTGTGCC---AGCTGACTATATATAAAAAAAAAAACAACAAACCTTATCCAAACACA 1068
DB 141 GAACGTGCCCCAGCATGTAACATATATAAAAAAAAAAACAACAAACCTTATCCAAACACA 82
QY 1069 CTGTCCCTGATTTGTAATGATGCTGCGCCCACTGATCTTTTGTATGCTTGGTATGCT 1128
DB 81 CTGTCCCTGATTTGTAATGATGCTGCGCCCACTGATCTTTTGTATGCTTGGTATGCT 22
QY 1129 CTTTGTGTTGGGCTTGAGAA 1149
DB 21 CTTTGTGTTGGGCTTGAGAA 1

RESULT 15
US-10-027-632-196186/c
; Sequence 196186, Application US/10027632
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027, 632
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218, 006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198, 676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193, 483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185, 218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167, 363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156, 358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146, 002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 196186
; LENGTH: 559
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-196186

Query Match 14.1%; Score 428.2; DB 43; Length 559;
Best Local Similarity 92.2%; Pred. No. 2.7e-64;
Matches 517; Conservative 2; Mismatches 30; Indels 12; Gaps 6;
QY 599 ATTCTAACAATATTTATGATTTATTTGATTTACATATTTACATGTTGTTGA 658
DB 559 ATTCTAACAATATTTATGATTTATTTGATTTACATATTTACATGTTGTTGA 500
QY 659 CACAAATTTTAAATATGTTCTTGATATGCAATATTTGCTTTAAATTTTAACTTCT 718
DB 499 CACAAATTTTAAATATGTTCTTGATATGCAATATTTGCTTTAAATTTTAACTTCT 440
QY 719 TTAATTTACTTTGTTATAGTCTCAACTATATTTCAAGTTTAAATTTTAACTTCT 778
DB 439 TTAATTTACTTTGTTATAGTCTCAACTATATTTCAAGTTTAAATTTTAACTTCT 380

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: April 10, 2004, 08:29:12 ; Search time 6908 Seconds
(without alignments)
1363.049 Million cell updates/sec

Title: US-09-430-412A-1

Perfect score: 3045
Sequence: 1 atcaccataacatccgtta.....gtggagagatgggctcttcg 3045

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 27513289 seqs, 14931090276 residues

Total number of hits satisfying chosen parameters: 55026578

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

EST:*
1: em_estba:*
2: em_estbm:*
3: em_estin:*
4: em_estmv:*
5: em_estov:*
6: em_estpl:*
7: em_estro:*
8: em_hnc:*
9: gb_est1:*
10: gb_est2:*
11: gb_hnc:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estom:*
17: em_gss_hum:*
18: em_gss_inv:*
19: em_gss_pln:*
20: em_gss_vrt:*
21: em_gss_fun:*
22: em_gss_mam:*
23: em_gss_mus:*
24: em_gss_pro:*
25: em_gss_rtd:*
26: em_gss_phg:*
27: em_gss_vrl:*
28: gb_gss1:*
29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	594	19.5	635 29	AG174550 Pan trogl
2	420	13.8	515 28	AQ0885016 HS 5518 A
3	111.2	3.7	1101 29	CNS00EVL
4	108.6	3.6	475 28	AQ304345 HS_3176_B

C 5	107.2	3.5	1101 29	CNS00EVL	AL069706 Drosophi1
C 6	103.6	3.4	1201 9	AL565455	AL565455
C 7	102	3.3	1056 13	BX415058	BX415058
C 8	101.4	3.3	1201 9	AL565104	AL565104
C 9	101	3.3	1165 13	BX338369	BX338369
C 10	100.8	3.3	714 28	AZ849216	AZ849216
C 11	100.4	3.3	1098 13	BX377526	BX377526
C 12	99.6	3.3	1200 13	BX415878	BX415878
C 13	99.2	3.3	1101 29	CNS00LT2	AL078714 Drosophi1
C 14	98.8	3.2	1272 28	CNS264939	CNS264939
C 15	98.4	3.2	1101 29	CNS0021U	AL061936 Drosophi1
C 16	96	3.2	997 29	CNS005TE	AL060767 Drosophi1
C 17	94.6	3.1	994 29	CNS04NOU	AL288972 Tetrahodon
C 18	94.2	3.1	1201 13	BX335216	BX335216
C 19	93.8	3.1	1201 13	BX458623	BX458623
C 20	93.8	3.1	1295 29	CG757539	CG757539
C 21	92.4	3.0	1101 29	CNS00807	AL069440 Drosophi1
C 22	92.4	3.0	1101 29	CG757970	CG757970
C 23	92.2	3.0	1101 29	CNS0039G	AL063921 Drosophi1
C 24	92	3.0	1200 13	BX437758	BX437758
C 25	91.8	3.0	1201 13	BX448679	BX448679
C 26	91.4	3.0	1200 13	BX437758	BX437758
C 27	91.2	3.0	872 14	CK022958	CK022958
C 28	91.2	3.0	1201 13	BX443774	BX443774
C 29	91	3.0	1045 13	BX456814	BX456814
C 30	90.6	3.0	1201 9	AL547503	AL547503
C 31	90.6	3.0	1201 13	BX357882	BX357882
C 32	90	3.0	987 29	CNS00418	AL066537 Drosophi1
C 33	89.8	2.9	1052 13	BUS60001	BUS60001
C 34	89.2	2.9	1200 13	BX415878	BX415878
C 35	88.8	2.9	975 28	BH179465	BH179465
C 36	88.8	2.9	1201 9	AL536104	AL536104
C 37	88.8	2.9	1391 29	CG754863	CG754863
C 38	88.8	2.9	1392 29	CG757503	CG757503
C 39	88.6	2.9	1200 13	BX436510	BX436510
C 40	88.2	2.9	1101 29	CNS01TRP	AL108415 Drosophi1
C 41	88	2.9	1592 29	CG750135	CG750135
C 42	87.8	2.9	1201 13	BX443774	BX443774
C 43	87.8	2.9	1201 13	BX461824	BX461824
C 44	87.8	2.9	1350 29	CG744271	CG744271
C 45	87.4	2.9	1140 13	BX415974	BX415974

ALIGNMENTS

RESULT 1
AG174550/c
LOCUS
DEFINITION
Pan troglodytes DNA, clone: RP43-044N13.T1, genomic survey
sequence.
ACCESSION
AG174550.1 GI:16704230
VERSION
AG174550.1
KEYWORDS
Pan troglodytes (chimpanzee)
SOURCE
Pan troglodytes
ORGANISM
Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Pan.
REFERENCE
1 Fujiyama, A., Hattori, M., Toyoda, A., Taylor, T.D., Yada, T.,
Toto, Y., Watanabe, H., and Sakaki, Y.,
BAC end sequences of library RPCI-43
2 (bases 1 to 635)
REFERENCE
Fujiyama, A., Hattori, M., Toyoda, A., Taylor, T.D., Yada, T.,
Toto, Y., Watanabe, H., and Sakaki, Y.,
Direct Submission
Submitted (02-AUG-2001) Asao Fujiyama, The Institute of Physical
and Chemical Research (RIKEN), Genomic Sciences Center (GSC),
1-7-22 Saitama-shi, Saitama-shi, Japan
E-mail: chimpanzee@gs.riken.go.jp, URL: http://hsp.gsc.riken.go.jp/
Tel: 81-45-503-9111, Fax: 81-45-503-9170
Clones are derived from the chimpanzee BAC library RPCI-43 This BAC

end was generated during the R&D process and may have higher chance of clone tracking errors.

PRIMERS

Sequencing: TU

LIBRARY

Vector 1 : PBACe3.6

R.site 1 : EcorI

R.site 2 : EcorI

Location/Qualifiers

FEATURES

1..635

/organism="Pan troglodytes"

/mol_type="genomic DNA"

/db_xref="taxon:9598"

/clone="RP43-044N13.TU"

/sex="male"

/cell_type="lymphocytes"

/clone_id="RP43-Chimpanzee Male BAC Library"

ORIGIN

Query Match 19.5%; Score 594; DB 29; Length 635;

Best Local Similarity 97.5%; Pred. No. 1.1e-91;

Matches 614; Conservative 0; Mismatches 15; Indels 1; Gaps 1;

QY 1973 GGTAAAGATGCAAAAGGCGATGTGAATGCCAGGCTTCACTTAAACAATATGCAAA 2032
 DB 635 GGTAAAGATGCAAAAGGCGATGTGAATGCCAGGCTTCACTTAAACAATATGCAAA 576
 QY 2033 TATTTCCATCCCTGAATTACTAGCCACAAAGCTATGGAAGTGCAGTCACTGAAT 2092
 DB 575 TATTTCCATCCCTGAATTACTAGCCACAAAGCTATGGAAGTGCAGTCACTGAAT 516
 QY 2093 TACAAGTATGATGATGGAAGAAAGTGTGTGTGTTAGATATATATCACTGAGTT 2152
 DB 515 TACAAGTATGATGATGGAAGAAAGTGTGTGTGTTAGATATATATCACTGAGTT 456
 QY 2153 TTGTTCTTCACTTTCGAGATGAGTGTGTTAACTCTCTCTCTCTTGAACAGTCTTTAT 2212
 DB 455 TTGTTCTTCACTTTCGAGATGAGTGTGTTAACTCTCTCTCTCTTGAACAGTCTTTAT 396
 QY 2213 AATTTGCTTCTCCCGGTTCCCAACGTTAAATAAAGTCAACAGGCAATATTCCTCT 2272
 DB 395 AATTTGCTTCTCCCGGTTCCCAACGTTAAATAAAGTCAACAGGCAATATTCCTCT 336
 QY 2273 GAGGAGTATGAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATG 2332
 DB 335 GAGGAGTATGAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATG 276
 QY 2333 CGTTGTTCTGTTGTTTTCGAGACGAGTCTCGCTCTGTCGCCAGGCTGAGTGCATG 2392
 DB 275 CGTTGTTCTGTTGTTTTCGAGACGAGTCTCGCTCTGTCGCCAGGCTGAGTGCATG 216
 QY 2393 GCGGAGAAAGGAGTGTGCTTTTAAAGAAAGACACACTCGGTTCTTCTTCATTAAT 2452
 DB 215 GCGGAGAAAGGAGTGTGCTTTTAAAGAAAGACACACTCGGTTCTTCTTCATTAAT 156
 QY 2453 AGCAATATTTGGAGACTGACCCAGAGCTGTTCACCTTCCATTCAGGCTCCCTATGCT 2512
 DB 155 AGCAATATTTGGAGACTGACCCAGAGCTGTTCACCTTCCATTCAGGCTCCCTATGCT 96
 QY 2513 CTTTTCTCATCTCTATTGCTCACTCTGGAGTCTGACAGATTTAAGATTTGGCAAT 2572
 DB 95 CTTTTCTCATCTCTATTGCTCACTCTGGAGTCTGACAGATTTAAGATTTGGCAAT 36
 QY 2573 AATATGAGCAAGAGATGATGGAATCCG 2602
 DB 35 AATAT-AGGCAAGAGATGATGGAATCCG 7

RESULT 2
 A0885016 515 bp DNA linear GSS 09-NOV-1999
 LOCUS HS 5518 A2 C02 T7A RPCI-11 Human Male BAC Library Homo sapiens
 DEFINITION genomic clone Plate=9286 Col=4 Row=E, genomic survey sequence.

ACCESSION A0885016
 VERSION A0885016.1 GI:6315483
 KEYWORDS GSS.

SOURCE

ORGANISM

Homo sapiens

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

1 (bases 1 to 515)

Mahairas, G.G., Wallace, J.C., Smith, K., Swartzell, S., Holzman, T.,

Keller, A., Shaker, R., Furlong, J., Young, J., Zhao, S., Adams, M.D. and

Hood, L.

Sequence-tagged connectors: A sequence approach to mapping and

scanning the human genome

Proc. Natl. Acad. Sci. U.S.A. 96 (17), 9739-9744 (1999)

99380589

10449764

COMMENT

Contact: Mahairas GG, Wallace JC, Hood L

High Throughput Sequencing Center

University of Washington

401 Queen Anne Avenue North, Seattle, WA 98109, USA

Tel: (206) 616-3618

Fax: (206) 616-3887

Email: jwallace@u.washington.edu

Clones are derived from the human BAC library RPCI-11. For BAC

library availability, please contact Pieter de Jong

(pieter@dejong.med.buffalo.edu). Clones may be purchased from

BACpac Resources (http://bacpac.med.buffalo.edu/ordering_bac.htm)

or from Research Genetics (info@resgen.com). BAC end Web Server:

http://www.htsc.washington.edu

Plate: 9286 row: E column: 4

Seq primer: T7

Class: BAC ends

High quality sequence stop: 515.

Location/Qualifiers

1..515

/organism="Homo sapiens"

/mol_type="genomic DNA"

/db_xref="taxon:9606"

/clone="Plate=9286 Col=4 Row=E"

/sex="male"

/note="Vector: PBACe3.6; Site 1: EcorI; Site 2: EcorI;

Male blood DNA was isolated from one randomly chosen donor

and partially digested with a combination of EcorI and

EcoRI Methylase. Size selected DNA was cloned into the

PBACe3.6 vector at EcorI sites"

ORIGIN

Query Match 13.8%; Score 420; DB 28; Length 515;

Best Local Similarity 96.2%; Pred. No. 6.7e-62;

Matches 459; Conservative 0; Mismatches 15; Indels 3; Gaps 3;

QY 1163 AATTCAGAGCTCAATTTGAACACAAATTTAAGATTATTCGAATCTGTAGTGAATCTGT 1222
 DB 32 AATTCAGAGCTCAATTTGAACACAAATTTAAGATTATTCGAATCTGTAGTGAATCTGT 91
 QY 1223 CATGTTATCCAGTGTCACTCTTTTGAAGATTCATCTCTTCACTCAGGATGATC 1282
 DB 92 CATGTTATCCAGTGTCACTCTTTTGAAGATTCATCTCTTCACTCAGGATGATC 151
 QY 1283 AGATGATTAAGTAAGTAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1341
 DB 152 AGATGATTAAGTAAGTAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 211
 QY 1342 TTTCACATGCTCAAAATGTATTAATTTG-TTCTCTGTTAAGGAACAGCTTAGAAC 1400
 DB 212 TTTCACATGCTCAAAATGTATTAATTTGTTTCTCTGTTAAGGAACAGCTTAGAAC 271
 QY 1401 AAACCTTTGTAAGTATCTTTA-TTTCAGATGATTTAACAATTTCCAAATGTTAATCATTTG 1459
 DB 272 AAACCTTTGTAAGTATCTTTA-TTTCAGATGATTTAACAATTTCCAAATGTTAATCATTTG 331
 QY 1460 GAAATGCAATACATTCGTTCTCCCAAAAGAGTAATTTATAGTATCCAAAGTTC 1519

Db	332	GAAATGCAATACATCTCTTTCTCCAAACAAAGGTAAATTATGTCAGTTCCAAAGTCC	391
Qy	1520	AGGTTATGACGACAAAACCAACACAGGTGAAGTGTAACTAGCTTATTTAAATGG	1577
Db	392	ACCTTATGACACACAAAACCAACACAGGTGAGTGTAACTAGCTTATTTACATGG	451
Qy	1580	CATTCACATTTGAATCTGTGAATACAGATTACTTCAGGCTTTGAGAGGAAGCTAA	1636
Db	452	CATTCACATTTGAATCTGTGAATACAGATTACTTCAGGCTTTTGAAGAAGCTAA	508

RESULT 3	
CNS00EVL	
LOCUS	1101 bp DNA linear GSS 04-JUN-1998
DEFINITION	Drosophila melanogaster genome survey sequence T7 end of BAC:
	BACR029B03 of RPC1-98 library from Drosophila melanogaster (fruit
	fly), genomic survey sequence.

ACCESSION	AL069706
VERSION	AL069706.1
KEYWORDS	GI:4949849
SOURCE	GSS.
ORGANISM	Drosophila melanogaster (fruit fly)
	Drosophila melanogaster

REFERENCE	1 (bases 1 to 1101)
AUTHORS	Genoscope,
TITLE	Direct Submision
JOURNAL	Submitted (02-JUN-1999)
	Genoscope - Centre National de Sequencage :

COMMENT

Determination of this BAC-end sequence was carried out as part of collaboration with the Berkeley Drosophila Genome Project (BDGP). The BDGP is constructing a physical map of the Drosophila melanogaster genome using these BACs. For further information please see <http://www.fruitfly.org> The BDGP Drosophila melanogaster BAC library was prepared by Kazuhiro Osoegawa and Aaron Mammeter in Pieter de Jong's laboratory in the Department of Cancer Genetics at the Roswell Park Cancer Institute in Buffalo, NY. The library is named RPc1-98 and was constructed by partial EcoRI digestion of Drosophila DNA provided by the BDGP from the isogenic strain y2; cn bw sp, the same strain used for the BDGP's P1 and EST libraries. A more detailed description of the library and how to order individual BAC clones, the entire library, or filters for hybridization from the BACPAC Resource Center can be found at http://bacpac.med.buffalo.edu/drosophila_bac.htm.

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FEATURES
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    location/Challieets
    /organism="Drosophila melanogaster"
    /mol_type="genomic DNA"
    /db_xref="taxon:7227"
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    /clone_1b="RRC1-96"
    /note="end : 17"
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Query March	3.7%	Score 111.2; DB 29; Length 110;
Best Local Similarity	35.7%	Pred. No. 3-le-09;
Matches 233;	Conservative 127;	Mismatches 286; Indels 5; Gaps 2

QY	126	TTCTGTATCTTTAAGATTAAACATAGAGAGATTGCTTAAGTGAATAATGAAATGCA	185
		:::::	:::::
DB	454	YTCGACTTWTMDMMQMMWAAATWMAAAWAAATTAATTAATWAAWAAWMAWMAATTTT	513
		:::::	:::::
QY	186	ATATCATCTTCGCAATATCATTTTATATATATCACAGATATTAGTTTAAAAAGTTAAA	245
		:::::	:::::
DB	514	MMWMTAATTTTWTWMTWMTAATTAATAAAAAAAWMTAATTTTAAAWATAATTAATAATT	573
		:::::	:::::
QY	246	CATTAATATCTAATTATGATGATGACAGATGAGTAAACCTATGCGCGCGCAATACTT	305
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DB	574	TAAATAAATATATTAATATWTAATATATATATTAATAAAATCTTTTATWATAAAATTT	633
		:::::	:::::

[illegible][illegible]

University of Washington
401 Queen Anne Avenue North, Seattle, WA 98109, USA
Tel: (206) 616-3618
Fax: (206) 616-3887
Email: jwalace@u.washington.edu
Sequence Tagged Connector
Plate: 3176 row: P column: 22
Class: BAC ends
High quality sequence stop: 475.
Location/Qualifiers
1..475
/organism="Homo sapiens"
/mol_type="genomic DNA"
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/sex="male"

ORIGIN /clone_11b="CIT Approved Human Genomic Sperm Library D"
/note="Organ: sperm; Vector: pBelOAc11; BAC clones in E-Coli DH10B"

Query Match 3.6%; Score 108.6; DB 28; Length 475;
Best Local Similarity 70.7%; Pred. No. 1.2e-08;
Matches 186; Conservative 0; Mismatches 68; Indels 9; Gaps 3;

QY 886 TCACAAATCTTAAAGACTTCTGAGAGTGTGTAAGACAGATTACATGTAATCTTATCT 945
DB 284 TCATTTTGTGAAAAAGTTTTCAGAGTGTGAGACCACTACCGGGTAACTATTT 225
QY 946 CTTTCTTTGATGCC---ATGATCATCATGATGAGCTCATGTGTGATGCTGAA 1001
DB 224 CATTTTTCACACCCCATGATTTCTCCCAATGCGAGCTCATGTGTGATGCTGAA 165
QY 1002 TG-ATTGATGAGGAGTGTGCC---AGCTGACTATATAAAAAAACAACAACAACT 1056
DB 164 AGAATTTGATGAGTGTGAGTGTGCCGAGCACTGAACTTAAAAAAGAAACAACAACT 105
QY 1057 TATCCAAACACACTGCTCTGATTTGTAATGATGATGCGCCCACTGATTTCTTTTATGCT 1116
DB 104 TATCCAAACACACTGCTCTGATTTGTAATGATGATGCGCCCACTGATTTCTTTTATGCT 45
QY 1117 TTGATTTGCTCTTTTGTGG 1139
DB 44 CAGTATGATGCTCTTTGTGG 22

RESULT 5
CNS00EVL 1101 bp DNA linear GSS 04-JUN-1999
LOCUS Drosophila melanogaster genome survey sequence T7 end of BAC:
BACR23523 of RPCL-98 library from Drosophila melanogaster (fruit fly), genomic survey sequence.
ACCESSION AL069706
VERSION AL069706.1 GI:4949849
KEYWORDS GSS.
SOURCE Drosophila melanogaster (fruit fly)
ORGANISM Drosophila melanogaster
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pelegrina;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
1 (bases 1 to 1101)
Genoscope.
REFERENCE Direct Submission
AUTHORS Submitted (02-JUN-1999) Genoscope - Centre National de Sequencage :
TITLE BP 191 91006 EVRI cedex - FRANCE (E-mail : seqref@genoscope.cns.fr)
JOURNAL

COMMENT - Web : www.genoscope.cns.fr
- Determination of this BAC-end sequence was carried out as part of a collaboration with the Berkeley Drosophila Genome Project (BDGP). The BDGP is constructing a physical map of the Drosophila melanogaster genome using these BACs. For further information please see <http://www.fruitfly.org> The BDGP Drosophila melanogaster BAC library was prepared by Kazutoyo Osoegawa and Aaron Mammoxer in Peter de Jong's laboratory in the Department of Cancer Genetics at the Roswell Park Cancer Institute in Buffalo, NY. The library is named RPCL-98 and was constructed by partial EcoRI digestion of Drosophila DNA provided by the BDGP from the isogenic strain Y2; on bw sp, the same strain used for the library and how to order individual BAC clones, the entire library, or filters for hybridization from the BACPAC Resource Center can be found at http://bacpac.med.buffalo.edu/drosophila_bac.htm.

FEATURES
source
1..1101
location/Qualifiers
/organism="Drosophila melanogaster"
/mol_type="genomic DNA"
/db_xref="taxon:7227"
/clone="BACR23523"
/clone_11b="RPCL-98"
/note="end : 17"

ORIGIN

Query Match 3.5%; Score 107.2; DB 29; Length 1101;
Best Local Similarity 36.3%; Pred. No. 1.6e-08;
Matches 213; Conservative 108; Mismatches 261; Indels 4; Gaps 1;

QY 331 ATTCAATGAGTGTGCTTTGAAAGCTTTAAATTTGAAAGAAATTAAGTTGATATTT 390
DB 1061 ATTMTATATATATATATATATATATATATATATATATATATATATATATAT 1002
QY 391 ATGATATATATATATATATATATATATATATATATATATATATATATATATAT 446
DB 1001 TATATATATATATATATATATATATATATATATATATATATATATATATATAT 942
QY 447 TAAATTTCAATGATGATGATTTGAAAGCAATATCAAAATGCTATCTCAGCAATAT 506
DB 941 TAAATTTCAATGATGATGATTTGAAAGCAATATCAAAATGCTATCTCAGCAATAT 882
QY 507 AATTCAGATTTTACAGATTTTAACTTCTGATGAGAAATTAATTTGCTAGTAT 566
DB 881 TATTTTATATATATATATATATATATATATATATATATATATATATATATAT 822
QY 567 TAACTATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 626
DB 821 TAACTATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 762
QY 627 TTGTGATTTACATTTTACATGATGATGATGATGATGATGATGATGATGATGAT 686
DB 761 ATTMTATATATATATATATATATATATATATATATATATATATATATATAT 702
QY 687 CATATATTTGCTTTTAAATTTTAAAGTTTCTTTTAACTTTTAACTTTTAACTTT 746
DB 701 TTTTATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAA 642
QY 747 ATATATTTCAAGTTTATTTTATTTGATTTTATTTTATTTTATTTTATTTTAT 806
DB 641 ATATATTTCAAGTTTATTTTATTTGATTTTATTTTATTTTATTTTATTTTAT 582
QY 807 TTGTGATTTACATTTTACATGATGATGATGATGATGATGATGATGATGATGAT 866
DB 581 ATATATTTCAAGTTTATTTTATTTGATTTTATTTTATTTTATTTTATTTTAT 522
QY 867 GAAATGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 912
DB 521 ATATATTTCAAGTTTATTTTATTTGATTTTATTTTATTTTATTTTATTTTAT 476

RESULT 6
AL565455/c 1201 bp mRNA linear EST 12-MAY-2003
LOCUS AL565455 Homo sapiens FETAL BRAIN Homo sapiens cDNA clone
DEFINITION CS0D0005Y01.8 3-PRIME, mRNA sequence.
ACCESSION AL565455
VERSION AL565455.2 GI:30549492
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 1201)
Li, W.B., Gruber, C., Jesse, J. and Polayes, D.
Full-length cDNA libraries and normalization
Unpublished (2001)
On Feb 16, 2001 this sequence version replaced gi:12916848.
Contact: Genoscope
Genoscope - Centre National de Sequencage
BP 191 91006 EVRI cedex - France
Email: seqref@genoscope.cns.fr; Web : www.genoscope.cns.fr
Library was constructed by life technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 9232.f For
more information about this cluster, see
<http://www.genoscope.cns.fr/cgi-bin/cluster.cgi?seq=CS0D0005Y01&cluster=9232.f>. Contact :

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Comugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 10, 2004, 09:20:39 ; Search time 1031 Seconds
(without alignments)
11079.729 Million cell updates/sec

Title: US-09-430-412a-1
Perfect score: 3045
Sequence: 1 atccataatccgta.....gtgagagatgggcttcgcg 3045

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 2475585 seqs, 1875730760 residues

Total number of hits satisfying chosen parameters: 4951170

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications NA:*
1: /cgn2_6/prodata/1/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/prodata/1/pubpna/US06_PUBCOMB.seq:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	428.2	14.1	559	US-10-027-632-196186	Sequence 196186,
C 2	428.2	14.1	559	US-10-027-632-196187	Sequence 196187,
3	83.2	2.7	11745	US-10-240-453-206	Sequence 206, App
4	82.4	2.7	6636	US-10-311-455-764	Sequence 764, App
5	82	2.7	3673778	US-10-312-841-1	Sequence 1, Appli
C 6	80.8	2.7	158001	US-10-311-179-11	GENERAL INFORMATI
7	78.8	2.6	19787	US-10-311-455-1424	Sequence 1424, Ap
8	77.8	2.6	6063	US-10-240-453-268	Sequence 268, App
9	75.2	2.5	6317	US-10-204-708-11	Sequence 11, Appl
10	75.2	2.5	6317	US-10-311-455-381	Sequence 381, App
11	75.2	2.5	6465	US-10-311-455-958	Sequence 958, App
12	75.2	2.5	7351	US-10-311-455-2	Sequence 2, Appli
13	74.8	2.5	5145	US-10-311-455-321	Sequence 321, App
14	74.8	2.5	5145	US-10-240-485-17	Sequence 17, Appl
15	74.6	2.4	3673778	US-10-312-841-2	Sequence 2, Appli

16	74.4	2.4	14919	US-10-221-714A-228	Sequence 228, App
17	74	2.4	5689	US-10-221-714A-148	Sequence 148, App
18	74	2.4	5689	US-10-239-676-90	Sequence 90, Appl
19	74	2.4	5689	US-10-240-453-100	Sequence 100, App
20	74	2.4	12237	US-10-311-455-2331	Sequence 2331, App
21	73.6	2.4	4985	US-10-094-240-10	Sequence 10, Appl
22	73.6	2.4	4985	US-10-056-405-10	Sequence 10, Appl
23	73.2	2.4	8170	US-10-240-453-132	Sequence 132, App
24	73.2	2.4	18585	US-10-240-485-152	Sequence 152, App
C 25	72.6	2.4	863	US-10-027-632-31636	Sequence 31636, A
26	72.6	2.4	960	US-10-198-846-6381	Sequence 6381, Ap
27	72	2.4	5511	US-10-311-455-1844	Sequence 1844, Ap
28	71.6	2.4	17594	US-10-311-455-2000	Sequence 2000, App
29	71.4	2.3	8588	US-10-239-676-178	Sequence 178, App
30	71.4	2.3	8588	US-10-240-453-200	Sequence 200, App
C 31	71.4	2.3	3673778	US-10-312-841-1	Sequence 1, Appli
C 32	71.2	2.3	5413	US-10-321-714A-418	Sequence 418, App
33	71.2	2.3	19087	US-10-311-455-766	Sequence 766, App
C 34	71.2	2.3	276820	US-10-271-416-9	Sequence 9, Appli
35	70.6	2.3	175590	US-09-911-077A-13	Sequence 13, Appl
36	70.4	2.3	5388	US-10-311-455-218	Sequence 218, App
37	70.4	2.3	6247	US-10-311-455-248	Sequence 248, App
C 38	70.2	2.3	7498	US-10-311-455-230	Sequence 230, App
39	70.2	2.3	7823	US-10-339-676-198	Sequence 198, App
40	70.2	2.3	7823	US-10-311-455-2024	Sequence 2034, Ap
41	70.2	2.3	7823	US-10-240-453-292	Sequence 292, App
42	69.8	2.3	3973	US-10-311-455-144	Sequence 144, App
43	69.6	2.3	6192	US-10-221-714A-408	Sequence 408, App
44	69.4	2.3	6298	US-10-239-676-64	Sequence 64, Appl
45	69.4	2.3	6298	US-10-240-453-68	Sequence 68, Appl

ALIGNMENTS

RESULT 1
US-10-027-632-196186/c
Sequence 196186, Application US/10027632
Publication No. US20030204075A9
GENERAL INFORMATION:
APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
FILE REFERENCE: 108827.129
CURRENT APPLICATION NUMBER: US/10/027, 632
PRIOR FILING DATE: 2002-04-30
PRIOR APPLICATION NUMBER: US 60/218, 006
PRIOR FILING DATE: 2000-07-12
PRIOR APPLICATION NUMBER: US 60/198, 676
PRIOR FILING DATE: 2000-04-20
PRIOR APPLICATION NUMBER: US 60/193, 483
PRIOR FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: US 60/185, 218
PRIOR FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: US 60/167, 363
PRIOR FILING DATE: 1999-11-23
PRIOR APPLICATION NUMBER: US 60/156, 358
PRIOR FILING DATE: 1999-09-28
PRIOR APPLICATION NUMBER: US 60/146, 002
PRIOR FILING DATE: 1999-08-09
NUMBER OF SEQ ID NOS: 325720
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 196186
LENGTH: 559
TYPE: DNA
ORGANISM: Human
US-10-027-632-196186
Query Match 14.1%; Score 428.2; DB 15; Length 559;
Best Local Similarity 92.2%; Pred. No. 2.7e-77;
Matches 517; Conservative 2; Mismatches 30; Indels 12; Gaps 6;
QY 599 ATTCTACTACATTTATTGATTATTGTGATTACATTTACTGTTGTTGA 658

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: April 10, 2004, 08:35:04 ; Search time 238 Seconds
(without alignments)
7100.107 Million cell updates/sec

Title: US-09-430-412A-1

Perfect score: 3045

Sequence: 1 atcatcatatatacgtta.....gtgagagatgggctcttcg 3045

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: Issued Patents NA.*
2: /cgm2_6/ptodata/2/ina/5A.COMB.seq.*
3: /cgm2_6/ptodata/2/ina/5B.COMB.seq.*
4: /cgm2_6/ptodata/2/ina/6A.COMB.seq.*
5: /cgm2_6/ptodata/2/ina/6B.COMB.seq.*
6: /cgm2_6/ptodata/2/ina/Backfiles.seq.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	125.6	4.1	7218	1	US-08-232-463-14
C 2	75.2	2.5	6317	4	US-10-204-708-11
C 3	74	2.4	665	2	US-08-883-795A-36
C 4	68.6	2.3	636	3	US-08-998-416-1137
C 5	68.4	2.2	64081	4	US-09-790-988-1
C 6	67.8	2.2	53526	3	US-08-658-136-2
C 7	67.8	2.2	53577	3	US-08-658-136-1
C 8	65.2	2.1	507	4	US-09-489-039A-1200
C 9	65.2	2.1	516	4	US-09-489-039A-1064
C 10	65.2	2.1	537	4	US-09-489-039A-1065
C 11	65.2	2.1	549	4	US-09-489-039A-1130
C 12	65.2	2.1	558	4	US-09-488-039A-1011
C 13	65.2	2.1	609	4	US-09-488-039A-1177
C 14	64.4	2.1	1866	3	US-09-173-581-13
C 15	64.4	2.1	1866	3	US-09-420-915-13
C 16	63.8	2.1	19124	2	US-08-487-826B-13
C 17	63.4	2.1	10640	4	US-09-417-485D-5
C 18	63.2	2.1	11049	4	US-10-204-708-21
C 19	62.8	2.1	819	4	US-09-918-686-5
C 20	62.8	2.1	92139	4	US-09-918-686-1
C 21	62.4	2.0	6866	4	US-10-204-708-20
C 22	62.2	2.0	1268	4	US-09-369-247-42
C 23	62	2.0	615	3	US-08-998-416-186
C 24	62	2.0	319608	4	US-09-529-333D-1
C 25	61.8	2.0	319608	4	US-09-529-333D-1
C 26	61.8	2.0	1867	3	US-08-943-731-111
C 27	61.8	2.0	24183	3	US-08-943-731-3

C 28	61.8	2.0	202001	4	US-09-734-674-3	Sequence 3, Appl1
C 29	61.6	2.0	837	3	US-08-998-416-28	Sequence 288, App
C 30	61.4	2.0	665	2	US-08-883-795A-36	Sequence 36, Appl
C 31	60.6	2.0	685	4	US-09-183-266A-16	Sequence 16, Appl
C 32	60.6	2.0	7122	3	US-09-318-448-2	Sequence 2, Appl1
C 33	60.6	2.0	7122	4	US-09-347-878-4	Sequence 4, Appl1
C 34	60.6	2.0	40000	4	US-09-780-049-18	Sequence 18, Appl
C 35	60.2	2.0	5852	1	US-07-867-106-2	Sequence 2, Appl1
C 36	60.2	2.0	13205	4	US-09-835-811-3	Sequence 3, Appl1
C 37	60.2	2.0	64081	4	US-10-204-708-80	Sequence 1, Appl1
C 38	59.8	2.0	8961	4	US-09-641-638-651	Sequence 80, Appl
C 39	59.6	2.0	20674	4	US-09-640-173-53	Sequence 651, App
C 40	59.2	1.9	396	4	US-09-640-173-53	Sequence 53, Appl
C 41	59.2	1.9	396	4	US-09-713-550-53	Sequence 2, Appl1
C 42	59	1.9	10467	4	US-10-204-708-2	Sequence 6, Appl1
C 43	59	1.9	20303	1	US-08-370-975B-6	Sequence 1, Appl1
C 44	59	1.9	26764	1	US-08-370-975B-1	Sequence 3, Appl1
C 45	59	1.9	148567	4	US-09-801-876B-3	Sequence 3, Appl1

ALIGNMENTS

RESULT 1
US-08-232-463-14/c
Sequence 14, Application US/08232463
Patent No. 5670367
GENERAL INFORMATION:
APPLICANT: DORNER, F.
APPLICANT: SCHEIFLINGER, F.
TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Foley & Lardner
STREET: 1800 Diagonal Road, Suite 500
CITY: Alexandria
STATE: VA
COUNTRY: USA
ZIP: 22313-0299
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/232,463
FILING DATE:
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US/07/935,313
FILING DATE:
APPLICATION NUMBER: EP 91 114 300.6
FILING DATE: 26-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 30472/114 IMMU
TELEPHONE: (703)836-9300
TELEFAX: (703)836-4109
TELEX: 899149
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 7218 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
CLONE: PTZ9PT-F15
US-08-232-463-14
Query Match 4.1%, Score 125.6, DB 1, Length 7218:

Best Local Similarity 2.1%; Pred. No. 4.3e-18;
Matches 8; Conservative 284; Mismatches 88; Indels 0; Gaps 0;

QY 2665 TTGGTGTGACCGGAGATCTGTGTGTAGTACTCTGAGTCTCTGTGACAAAAA 2724
Db 1441 TTGGTGTGACCGGAGATCTGTGTGTAGTACTCTGAGTCTCTGTGACAAAAA 1382
QY 2725 GAGACTCGATGACGACGCTGAGCTAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2784
Db 1381 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1322
QY 2785 AGGCACTCTCGGGTGGGAGAGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAG 2844
Db 1321 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1262
QY 2845 CCGGCTTTCGAAAGCAGCTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2904
Db 1261 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1202
QY 2905 ACTGAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2964
Db 1201 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1142
QY 2965 GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 3024
Db 1141 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1082
QY 3025 CGTGAGAGATGGGGCTTCTC 3044
Db 1081 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1062

RESULT 2

US-10-204-708-11
; Sequence 11, Application US/10204708
; Patent No. 6677731
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: BERLIN, Kurt
; APPLICANT: PREPNEBROCK, Christian
; TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA Replication
; FILE REFERENCE: 5013.1012
; CURRENT APPLICATION NUMBER: US/10/204,708
; PRIOR FILING DATE: 2003-05-06
; PRIOR APPLICATION NUMBER: PCT/EP01/03971
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: DE 10019058.8
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 98
; SEQ ID NO 11
; LENGTH: 6317
; TYPE: DNA
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-204-708-11

Query Match 2.5%; Score 75.2; DB 4; Length 6317;
Best Local Similarity 45.0%; Pred. No. 4.4e-07;
Matches 391; Conservative 5; Mismatches 458; Indels 14; Gaps 3;

QY 1 ATATCATATATATCCGTATATAAGCTGTCTTCTTACGTAACTTTAGAGGCTTGA 60
Db 1201 ATGTAGATATATATATATATATATATATATATATATATATATATATATATAT 1260
QY 61 AGAATAAGAGCTATCTTACAGAGAGCTTTGTTGAGCATTTACTTAAGAAATATT 120

Db 1261 ATTGAGAGATATATTTTATATAGAAAAAGATATTTAAATATTTTATATAGAGGAT 1320
QY 121 TGGTATCTGTATCTTAAAGTTAAACATAGAGAGATGGCTAGAGAGAGAGAGAGAG 180
Db 1321 TATATTTGTTAGTAAAGAGTAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1380
QY 181 ACGCAATATCATCTGCAATATATATATATATATATATATATATATATATATATAT 240
Db 1381 ATAAATATATATATATATATATATATATATATATATATATATATATATATATAT 1440
QY 241 TTAACATATATATATATATATATATATATATATATATATATATATATATATATAT 297
Db 1441 TTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1500
QY 298 GAATATCTTGAGATCTCTGTTCCCTCAGATATATATATATATATATATATATATAT 357
Db 1501 GTTATATATTTTATATTTTATATTTTATATTTTATATTTTATATTTTATATTTTAT 1560
QY 358 TTAATTTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 417
Db 1561 TAGAATTTAGTATATTTTATATATATATATATATATATATATATATATATATATAT 1620
QY 418 GAATTTACTTTGATTTTGAAGAACTTTGATTAATTTCTACATCATATATATATATAT 477
Db 1621 AATATATATAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1680
QY 478 AATATATATATATATATATATATATATATATATATATATATATATATATATATAT 529
Db 1681 AATATATATATATATATATATATATATATATATATATATATATATATATATATAT 1740
QY 530 AACTTCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 589
Db 1741 TTAAGTATTTTATATATATATATATATATATATATATATATATATATATATATAT 1800
QY 590 GAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 649
Db 1801 AAGAGTAAAGTAAATATATATATATATATATATATATATATATATATATATATAT 1860
QY 650 GTTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 709
Db 1861 TTTTATATATATATATATATATATATATATATATATATATATATATATATATATAT 1920
QY 710 AAGTTCCCTTATATATATATATATATATATATATATATATATATATATATATATAT 769
Db 1921 TAGTATATTTGTTGATATATATATATATATATATATATATATATATATATATATAT 1980
QY 770 ATATATAGAGCTTTTAAATATATATATATATATATATATATATATATATATATAT 829
Db 1981 ATATATATATATATATATATATATATATATATATATATATATATATATATATATAT 2037
QY 830 ACTGTAAATATATATATATATATATATATATATATATATATATATATATATATAT 857
Db 2038 GATTTATTTAGGATATATATATATATATATATATATATATATATATATATATATAT 2065

RESULT 3

US-08-883-795A-36/c
; Sequence 36, Application US/08883795A
; Patent No. 5985607
; GENERAL INFORMATION:
; APPLICANT: Delcive, Genevieve
; APPLICANT: Awang, Gregor
; TITLE OF INVENTION: Recombinant DNA Molecules and Expression
; TITLE OF INVENTION: Vectors for Tissue Plasminogen Activator
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: BERESKIN & PARR
; STREET: 40 King Street West
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: M5H 3Y2